

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐  
(highlight changes)

001

APPLICATION FOR PERMIT TO DRILL

1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>		5. MINERAL LEASE NO: ML3276	6. SURFACE: State
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____ SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>		7. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
2. NAME OF OPERATOR: WESTPORT OIL & GAS COMPANY L.P.		8. UNIT or CA AGREEMENT NAME: NATURAL BUTTES UNIT	
3. ADDRESS OF OPERATOR: 1368 S 1200 E CITY VERNAL STATE UT ZIP 84078		9. WELL NAME and NUMBER: NBU 1022-160	
PHONE NUMBER: (435) 781-7024		10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 817' FSL & 2290' FWL E 633038X 39.943861 4422477Y -109.442788 AT PROPOSED PRODUCING ZONE:		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 16 10S 22E	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 33.6 MILES SOUTHEAST OF OURAY, UTAH		12. COUNTY: UINTAH	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 817'	16. NUMBER OF ACRES IN LEASE: 480.00	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 40.00	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) REFER TO TOPO C	19. PROPOSED DEPTH: 8,800	20. BOND DESCRIPTION: RLB0005238	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 5295' GL	22. APPROXIMATE DATE WORK WILL START:	23. ESTIMATED DURATION:	

24. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT
12 1/4"	9 5/8" H-40 32.3#	1,900	265 SX
7 7/8"	4 1/2" I-80 11.6#	8,800	1840 SX

RECEIVED

SEP 21 2004

DIV. OF OIL, GAS & MINING

25. ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

- ☒ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER  
☒ EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER

- ☒ COMPLETE DRILLING PLAN  
☐ FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

NAME (PLEASE PRINT) SHEILA UPCHEGO

TITLE REGULATORY ANALYST

SIGNATURE

DATE 9/10/2004

(This space for State use only)

API NUMBER ASSIGNED:

43-047-35945

APPROVAL:

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 10-27-04

By: [Signature]

T10S, R22E, S.L.B.&M.

1991 Alum. Cap,  
0.4' High, Pile of  
Stones, Steel Post

S89°45'48"W - 2644.46' (Meas.)

S89°57'44"W - 2642.19' (Meas.)

1991 Alum. Cap,  
3.0' High, Pile of  
Stones

1991 Brass Cap,  
0.5' High, Large  
Pile of Stones

S00°07'34"E - 2642.60' (Meas.)

N00°03'15"W - 2705.64' (Meas.)

1991 Alum. Cap,  
0.4' High, Pile of  
Stones, Steel Post

16

Alum. Cap,  
Steel Post,  
Pile of Stones

S00°08'14"E - 2646.66' (Meas.)

NBU #1022-160

Elev. Ungraded Ground = 5295'

2290'

1991 Alum. Cap,  
0.8' High, Pile of  
Stones, Steel Post

817'

1991 Alum. Cap,  
0.5' High, Pile of  
Stones, Steel Post

N00°05'04"W - 2632.14' (Meas.)

1991 Alum. Cap,  
0.4' High, Pile of  
Stones

N89°51'29"E - 2631.41' (Meas.)

S89°05'01"E - 2649.83' (Meas.)

# LEGEND:

└─┘ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

## BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

(NAD 83)

LATITUDE = 39°56'38.23" (39.943953)

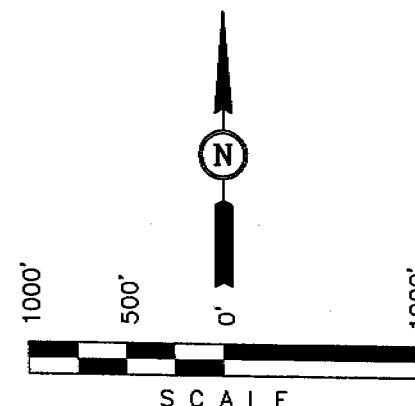
LONGITUDE = 109°26'36.59" (109.443497)

## WESTPORT OIL AND GAS COMPANY, L.P.

Well location, NBU #1022-160, located as shown in the SW 1/4 SE 1/4 of Section 16, T10S, R22E, S.L.B.&M. Uintah County, Utah.

## BASIS OF ELEVATION

TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN NE QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238 FEET.



## CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEY MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR  
NO. 181319  
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING  
85 SOUTH 200 EAST, VERNAL, UTAH 84078  
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 8-8-04	DATE DRAWN: 8-11-04
PARTY K.K. B.W. K.G.	REFERENCES G.L.O. PLAT	
WEATHER HOT	FILE WESTPORT OIL AND GAS COMPANY, L.P.	

NBU #1022-160  
SW/SE Sec. 16, T10S, R22E  
UINTAH COUNTY, UTAH  
ML-3276

ONSHORE ORDER NO. 1

***DRILLING PROGRAM***

1. **Estimated Tops of Important Geologic Markers:**

<u>Formation</u>	<u>Depth</u>
Uinta	Surface
Green River	1175'
Wasatch	4175'
Mesaverde	6650'
TD	8800'

2. **Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:**

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River	1175'
Gas	Wasatch	4175'
Gas	Mesaverde	6650'
Water	N/A	
Other Minerals	N/A	

3. **Pressure Control Equipment** (Schematic Attached)

*Please see the attached Drilling Program.*

4. **Proposed Casing & Cementing Program:**

*Please see the attached Drilling Program*

5. **Drilling Fluids Program:**

*Please see the attached Drilling Program.*

6. **Evaluation Program:**

*Please see the attached Drilling Program.*

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 8,800' TD, approximately equals 3520 psi (calculated at 0.4 psi/foot).

Maximum anticipated surface pressure equals approximately 1584 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates:**

*Drilling is planned to commence immediately upon approval of this application.*

9. **Variances:**

*Please see the attached Drilling Program.*

10. **Other Information:**

*Please see the attached Drilling Program.*





# Westport Oil and Gas Company, L.P.

## DRILLING PROGRAM

### CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				2270	1370	254000
SURFACE	9-5/8"	0 to 1900	32.30	H-40	STC	0.86*****	1.54	4.73
						7780	6350	201000
PRODUCTION	4-1/2"	0 to 8800	11.60	I-80	LTC	2.85	1.39	2.26

- 1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))  
 2) MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft-partial evac gradient x TD)  
 (Burst Assumptions: TD = 10.0 ppg) .22 psi/ft = gradient for partially evac wellbore  
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing\*Buoy.Fact. of water)  
 MASP 2640 psi

\*\*\*\*\* Burst SF is low but csg is much stronger than formation at 2000'. EMW @ 2000' for 2270# is 21.8 ppg or 1.13 psi/ft

### CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE Option 1	LEAD	500	Premium cmt + 2% CaCl + .25 pps flocele	215	60%	15.60	1.18
	TOP OUT CMT (1)	200	20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps flocele	50		15.60	1.18
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE Option 2	LEAD	1500	NOTE: If well will circulate water to surface, option 2 will be utilized				
			Prem cmt + 16% Gel + 10 pps gilsonite + .25 pps Flocele + 3% salt BWOC	170	35%	11.00	3.82
	TAIL	500	Premium cmt + 2% CaCl + .25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	3,670'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	400	60%	11.00	3.38
	TAIL	5,130'	50/50 Poz/G + 10% salt + 2% gel + .1% R-3	1440	60%	14.30	1.31

\*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

\*Substitute caliper hole volume plus 15% excess for TAIL if accurate caliper is obtained

### FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

### ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 3M with one annular and 2 rams. Test to 3,000 psi (annular to 1,500 psi) prior to drilling out. Record on chart recorder & four sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

DRILLING ENGINEER:

Brad Laney

DATE:

DRILLING SUPERINTENDENT:

Randy Bayne

DATE:

DHD\_NBU1022-160\_APD

NBU #1022-16O  
SW/SE Sec. 16, T10S-R22E  
Uintah County, UT  
ML-3276

ONSHORE ORDER NO. 1

***MULTI-POINT SURFACE USE & OPERATIONS PLAN***

1. **Existing Roads:**

Refer to Topo Map A for directions to the location.

Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

Refer to Topo Maps A and B for location of access roads within a 2 mile radius.

***Improvements to existing access roads shall be determined at the on-site inspection.***

All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.

2. **Planned Access Roads:**

Refer to Topo Map B for the location of the proposed access road.

The upgraded and new portions of the access road will be crowned and ditched with a running surface of 18 feet and a maximum disturbed width of 30 feet, ***unless modified at the on-site inspection.*** Appropriate water control will be installed to control erosion.

***Existence of pipelines; maximum grade; turnouts; major cut and fills, culverts, or bridges; gates, cattle guards, fence cuts, or modifications to existing facilities shall be determined at the on-site.***

The access road was centerline flagged during time of staking.

Surfacing material may be necessary, depending upon weather conditions.

Surface disturbance and vehicular traffic will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.

3. **Location of Existing Wells Within a 1-Mile Radius:**

Please refer to Topo Map C.

4. **Location of Existing & Proposed Facilities:**

***The following guidelines will apply if the well is productive.***

All production facilities will be located on the disturbed portion of the well pad and at a minimum of 25 feet from the toe of the back slope or the top of the fill slope.

A dike will be constructed completely around those production facilities which contain fluids (i.e., production tanks, produced water tanks, and/or heater/treater). These dikes will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank, and be independent of the back cut.

All permanent (on-site six months or longer) above the ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the five state Rocky Mountain Inter-Agency Committee.

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The required color is Carlsbad Canyon, standard color number 2.5Y 6/2.

Any necessary pits will be properly fenced to protect livestock and prevent wildlife entry.

Refer to Topo D for the proposed pipeline.

**5. Location and Type of Water Supply:**

Water for drilling purposes will be obtained from Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32, T4S, R3E, Water User Claim #43-8496, Application #53617.

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

**6. Source of Construction Materials:**

Surface and subsoil materials in the immediate area will be utilized.

Any gravel will be obtained from a commercial source.

**7. Methods of Handling Waste Materials:**

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids, including salts and chemicals, will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be removed and disposed of at an approved waste disposal facility within 120 days after drilling is terminated.

The reserve pit will be constructed on the location and will not be located within natural drainage, where a flood hazard exists or surface runoff will destroy or damage the pit walls. The reserve pit will be constructed so that it will not leak, break, or allow discharge of liquids. *The need for a reserve pit liner will be determined at the on-site inspection.*

If a plastic reinforced liner is used, it will be a minimum of 12 mil thick, with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash or scrap that could puncture the liner will be disposed of in the pit.



Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

A chemical porta-toilet will be furnished with the drilling rig.

Garbage, trash, and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. No trash will be burned on location.

All debris and other waste material not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig.

Any open pits will be fenced during the operations. The fencing will be maintained until such time as the pits are backfilled.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to one of the pre-approved disposal sites: RNI, Sec. 5, T9S, R22E, NBU #159, Sec. 35, T9S, R21E, Ace Oilfield, Sec. 2, T6S, R20E, MC&MC, Sec. 12, T6S, R19E.

8. **Ancillary Facilities:**

None are anticipated.

9. **Well Site Layout:** (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s). *This section is subject to modification as a result of the on-site inspection.*

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

If it is determined that a pit liner will be used at the on-site inspection, the reserve pit will be lined, and when the reserve pit is closed, the pit liner will be buried below plow depth.

All pits will be fenced according to the following minimum standards:

39 inch net wire will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.

The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.

Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.

Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

All wire shall be stretched, by using a stretching device, before it is attached to corner posts.

The reserve pit fencing will be on three sides during drilling operations, and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

Location size may change prior to the drilling of the well due to current rig availability. If the proposed location is not large enough to accommodate the drilling rig the location will be re-surveyed and a Form 9 shall be submitted.

**10. Plans for Reclamation of the Surface:**

*Producing Location:*

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, materials, trash, and debris not required for production.

Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1.

If a plastic, nylon reinforced liner is used, it shall be torn and perforated before backfilling of the reserve pit.

Before any dirt work associated with location restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 90 days from the date of well completion, weather permitting.

To prevent surface water (s) from standing (ponding) on the reclaimed reserve pit area, final reclamation of the reserve pit will consist of "mounding" the surface three feet above surrounding ground surface to allow the reclaimed pit area to drain effectively.

Upon completion of backfilling, leveling, and recontouring, the stockpiled topsoil will be spread evenly over the reclaimed area(s).

*Dry Hole/Abandoned Location:*

Abandoned well sites, roads, and other disturbed areas will be restored as near as practical to their original condition. Where applicable, these conditions include the re-establishment of irrigation systems, the re-establishment of appropriate soil conditions, and re-establishment of vegetation as specified.

All disturbed surfaces will be recontoured to the approximate natural contours, with reclamation of the well pad and access road to be performed as soon as practical after final abandonment. Reseeding operations will be performed after completion of other reclamation operations.

11. **Surface Ownership:**

SITLA  
675 East 500 South, Suite 500  
Salt Lake City, UT 84102

12. **Other Information:**

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, the approved Plan of Operations, and any applicable Notice of Lessees. The Operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

The Operator will control noxious weeds along Rights-Of-Way for roads, pipelines, well sites, or other applicable facilities.

A Class III archaeological survey will be submitted when report becomes available.

This location is not within 460' from the boundary of the Natural Buttes Unit, nor is it Within 460' of any non-committed tract lying within the boundaries of the Unit.

13. **Lessee's or Operators's Representative & Certification:**

Sheila Upchego  
Regulatory Analyst  
Westport O&G Co. L.P.  
P.O. Box 1148  
Vernal, UT 84078  
(435) 781-7024

Randy Bayne  
Drilling Manager  
Westport O&G Co. L.P.  
P.O. Box 1148  
Vernal, UT 84078  
(435) 781-7018

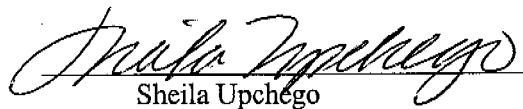
Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Westport O&G Co. L.P. is considered to be the operator of the subject well. Westport O&G Co. L.P. agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Westport O&G Co. L.P. State Surety Bond: RLB0005238.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

  
Sheila Upchego

9/10/04  
Date

# **WESTPORT OIL AND GAS COMPANY, L.P.**

**NBU #1022-160**

**SECTION 16, T10S, R22E, S.L.B.&M.**

**PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 11.2 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 8.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 1.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN RIGHT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 1.0 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE NORTHEAST; FOLLOW ROAD FLAGS IN A NORTHEASTERLY DIRECTION APPROXIMATELY 300' TO THE PROPOSED LOCATION.**

**TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 53.95 MILES.**

# WESTPORT OIL AND GAS COMPANY, L.P.

NBU #1022-160

LOCATED IN UINTAH COUNTY, UTAH

SECTION 16, T10S, R22E, S.L.B.&M.

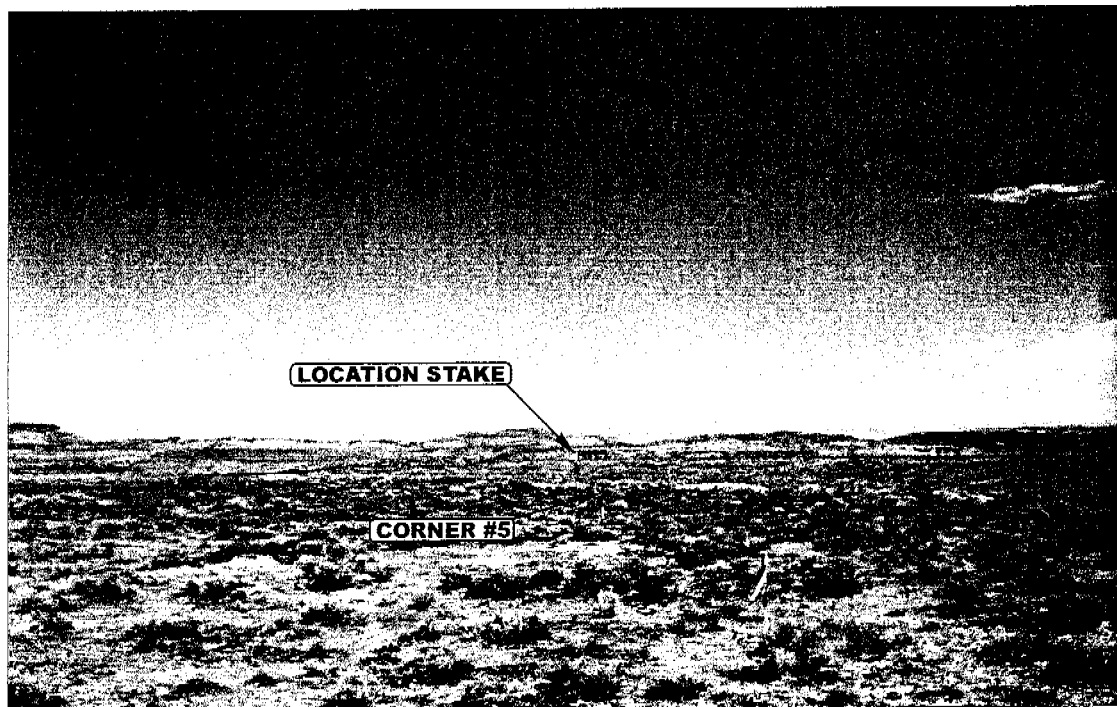


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY

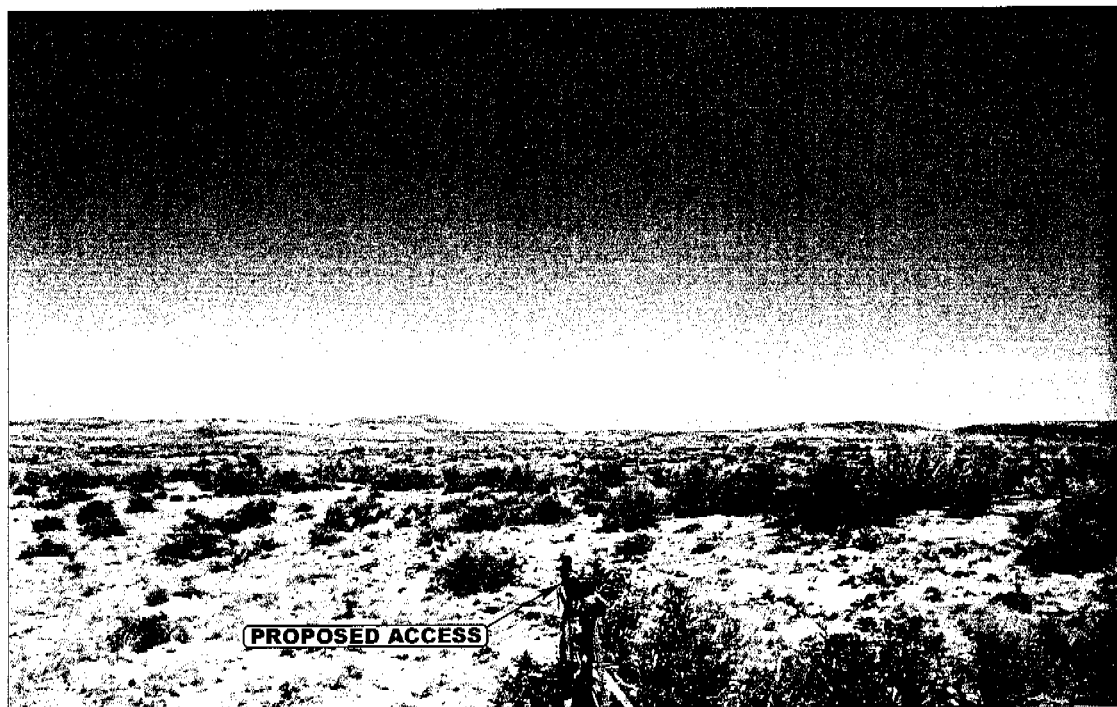


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHEASTERLY



- Since 1964 -

UELS

Uintah Engineering & Land Surveying

85 South 200 East Vernal, Utah 84078

435-789-1017 uels@uelsinc.com

LOCATION PHOTOS

8

MONTH

12

DAY

04

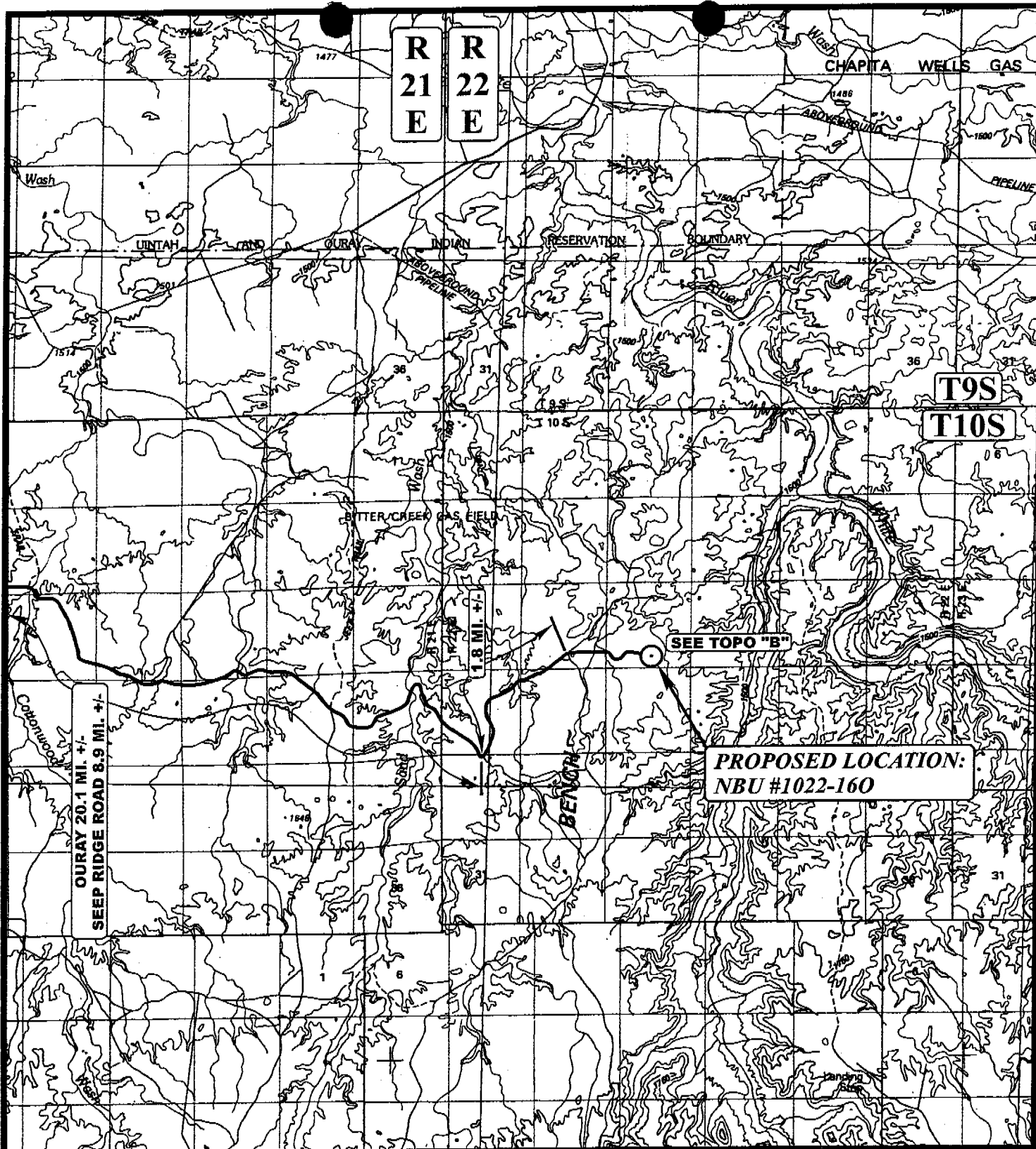
YEAR

PHOTO

TAKEN BY: K.K.

DRAWN BY: K.G.

REVISED: 00-00-00



# **LEGEND:**

○ PROPOSED LOCATION

N



**WESTPORT OIL AND GAS COMPANY, L.P.**

NBU #1022-160

SECTION 16, T10S, R22E, S.L.B.&M.

817' FSL 2290' FEL



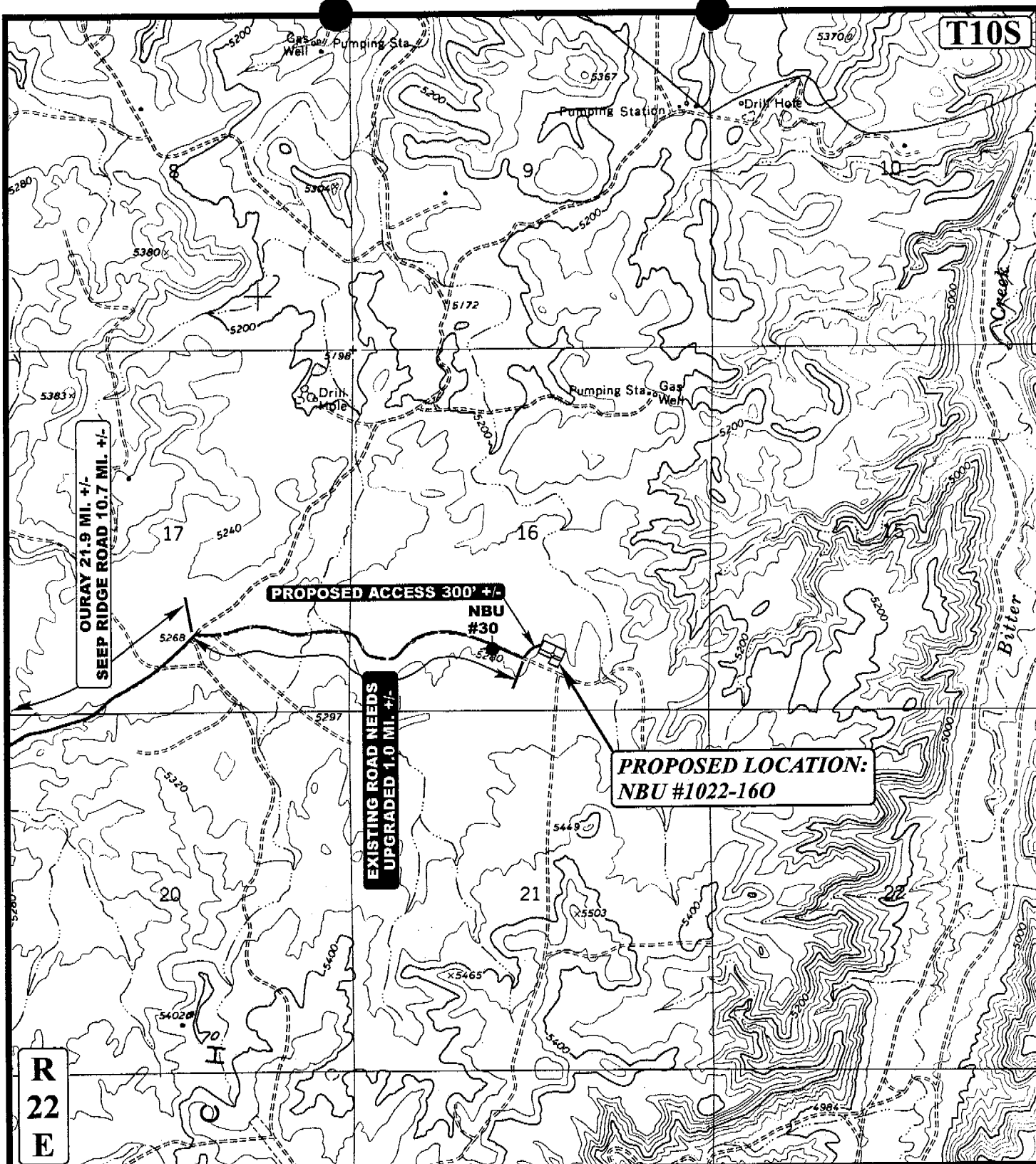
**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC  
MAP**

**8 12 04**  
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: K.G. REVISED: 00-00-00

**A  
TOPO**



# **LEGEND:**

----- PROPOSED ACCESS ROAD  
 ————— EXISTING ROAD

**WESTPORT OIL AND GAS COMPANY, L.P.**

**NBU #1022-160**

**SECTION 16, T10S, R22E, S.L.B.&M.**

**817' FSL 2290' FEL**



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



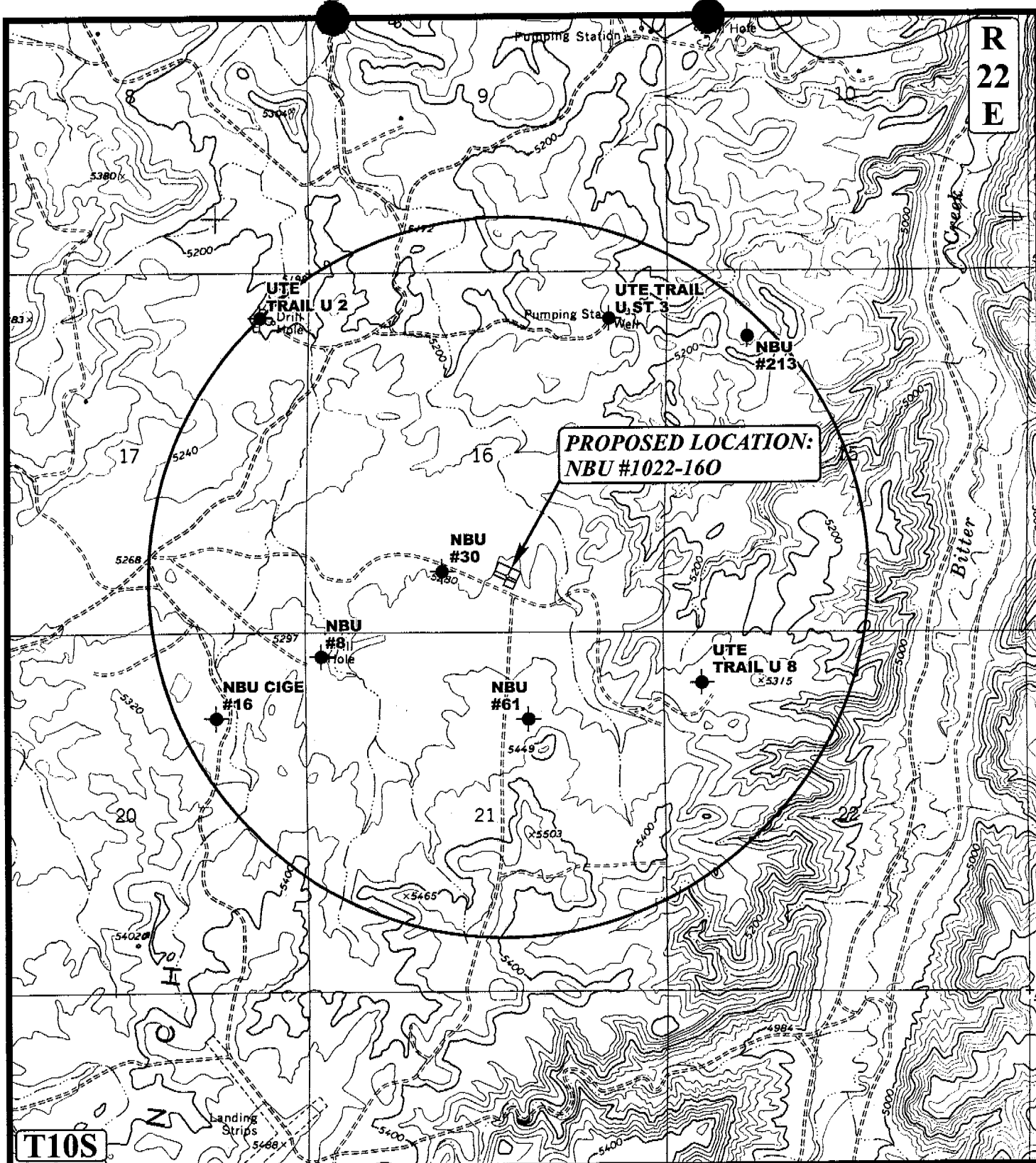
**TOPOGRAPHIC**  
**MAP**

**8 12 04**  
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: K.G. REVISED: 00-00-00

**B**  
**TOPO**





**T10S**

**LEGEND:**

- |                   |                         |
|-------------------|-------------------------|
| ○ DISPOSAL WELLS  | ● WATER WELLS           |
| ● PRODUCING WELLS | ● ABANDONED WELLS       |
| ● SHUT IN WELLS   | ● TEMPORARILY ABANDONED |



**WESTPORT OIL AND GAS COMPANY, L.P.**

**NBU #1022-160**

**SECTION 16, T10S, R22E, S.L.B.&M.**

**817' FSL 2290' FEL**



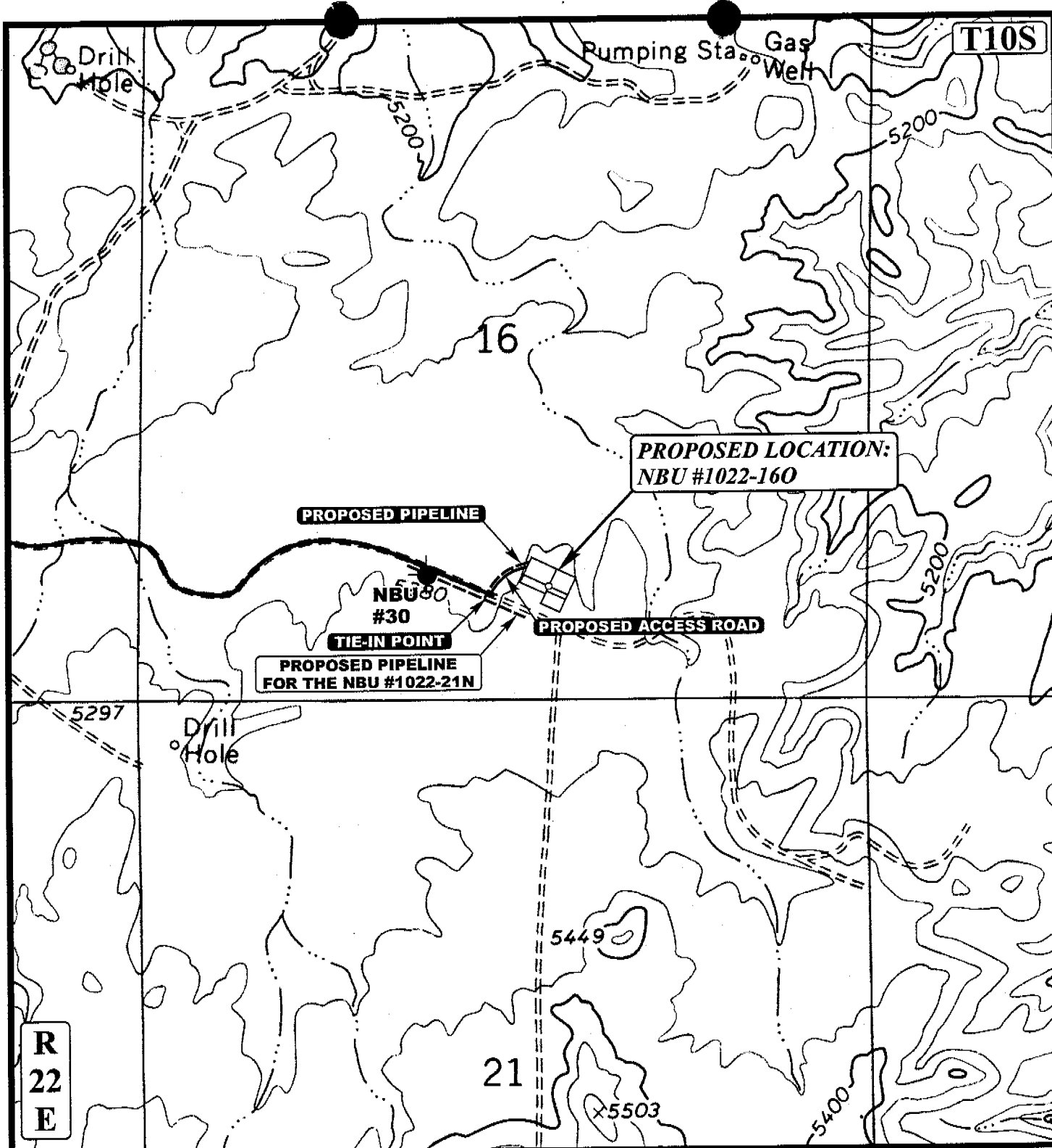
**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC  
MAP**

**8 12 04**  
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: K.G. REVISED: 00-00-00

**C**  
TOPO



APPROXIMATE TOTAL PIPELINE DISTANCE = 500' +/-

# LEGEND:

- EXISTING PIPELINE
- - - - PROPOSED PIPELINE
- - - - PROPOSED ACCESS

N



WESTPORT OIL AND GAS COMPANY, L.P.

NBU #1022-160

SECTION 16, T10S, R22E, S.L.B.&M.

817' FSL 2290' FEL



Uintah Engineering & Land Surveying  
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TOPOGRAPHIC  
MAP

8 12 04  
MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: K.G. REVISED: 00-00-00



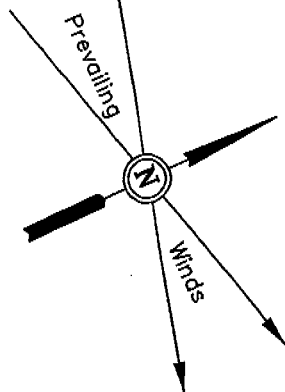
## LOCATION LAYOUT FOR

NBU #1022-16Ø

SECTION 16, T10S, R22E, S.L.B.&amp;M.

817' FSL 2290' FEL

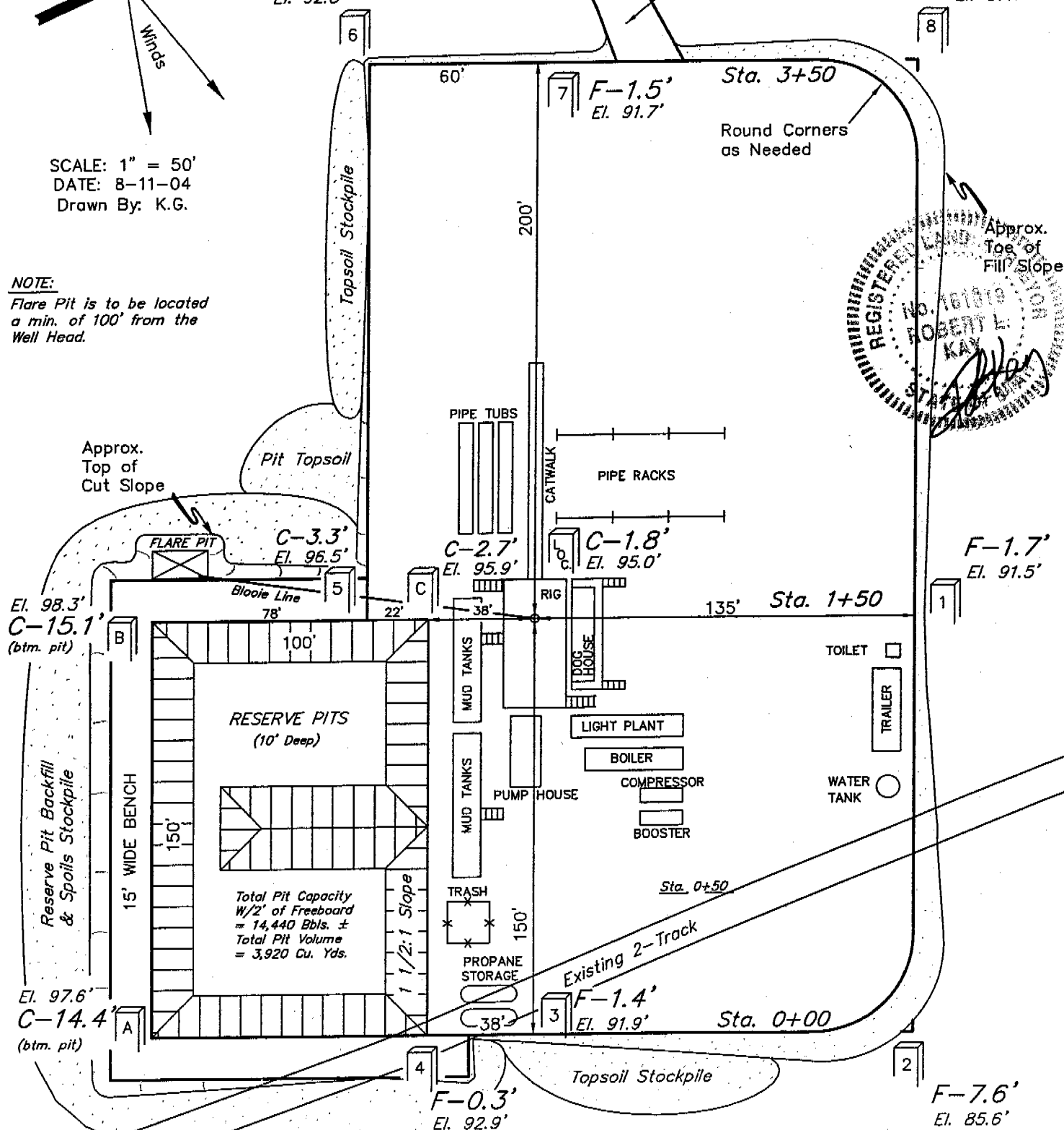
Proposed Access Road

F-0.9'  
El. 92.3'F-5.5'  
El. 87.7'

SCALE: 1" = 50'  
DATE: 8-11-04  
Drawn By: K.G.

## NOTE:

Flare Pit is to be located  
a min. of 100' from the  
Well Head.



## NOTES:

Elev. Ungraded Ground At Loc. Stake = 5295.0'

FINISHED GRADE ELEV. AT LOC. STAKE = 5293.2'

UINTAH ENGINEERING & LAND SURVEYING

85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

# WESTPORT OIL AND GAS COMPANY, L.P.

FIGURE #2

## TYPICAL CROSS SECTIONS FOR

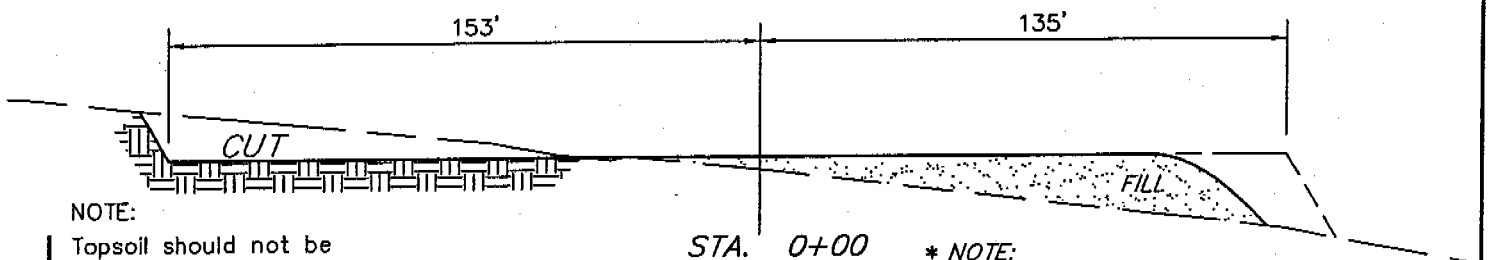
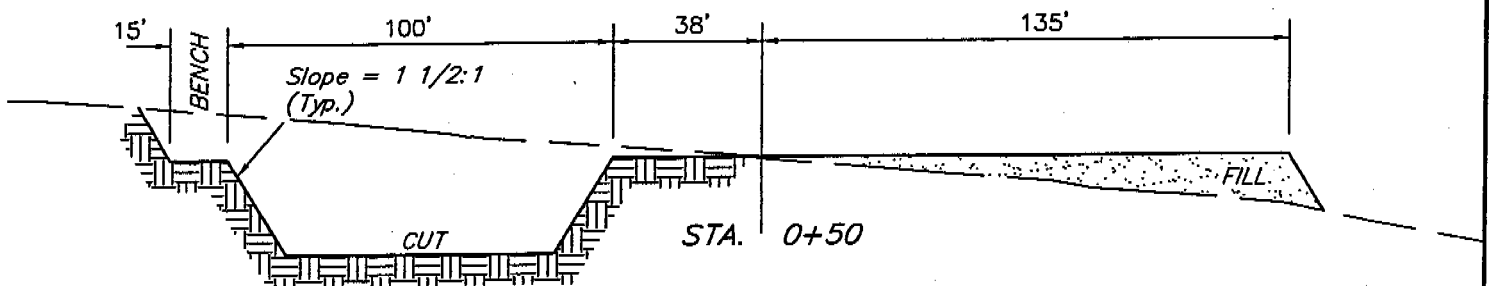
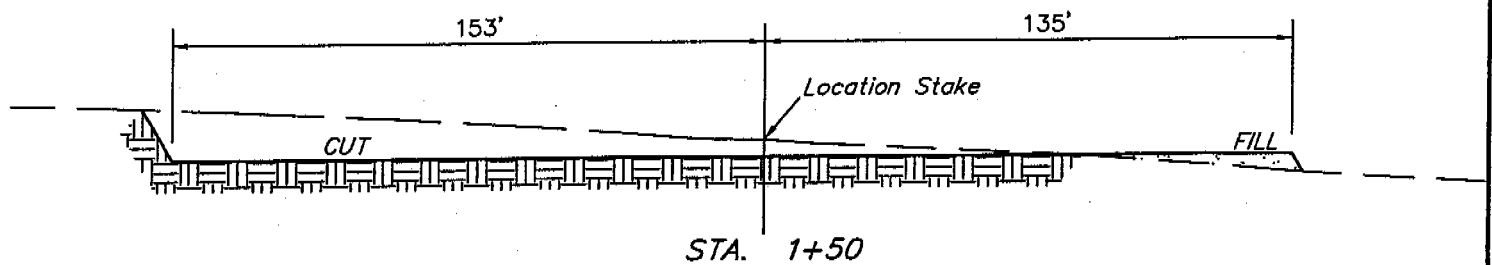
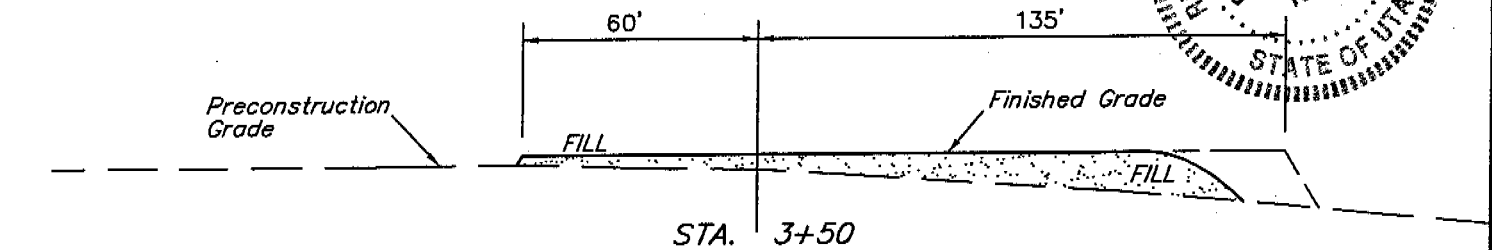
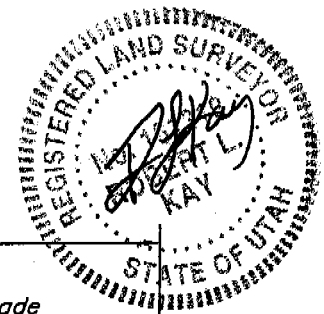
NBU #1022-16Ø

SECTION 16, T10S, R22E, S.L.B.&M.

817' FSL 2290' FEL

1" = 20'  
X-Section  
Scale  
1" = 50'

DATE: 8-11-04  
Drawn By: K.G.



### NOTE:

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

### \* NOTE:

FILL QUANTITY INCLUDES 5% FOR COMPACTION

### APPROXIMATE YARDAGES

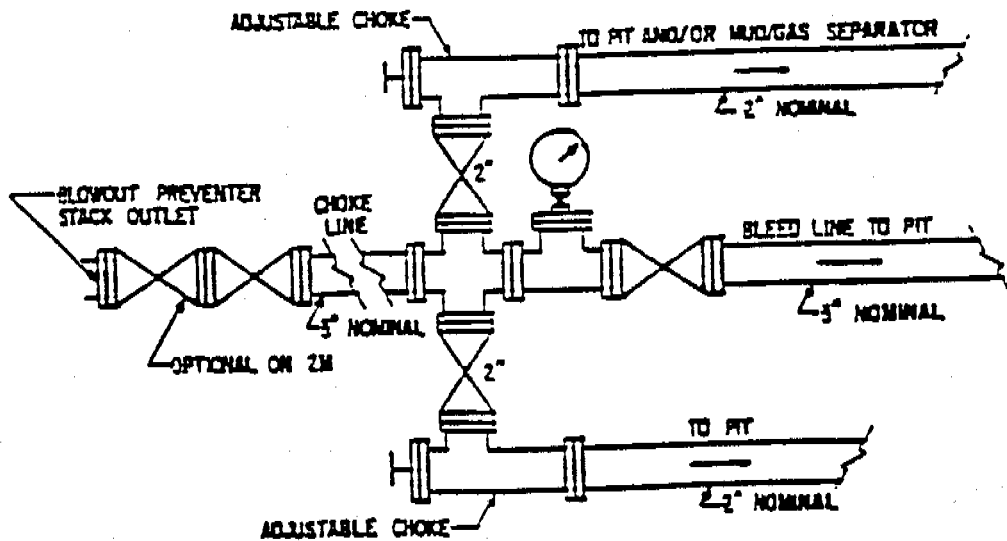
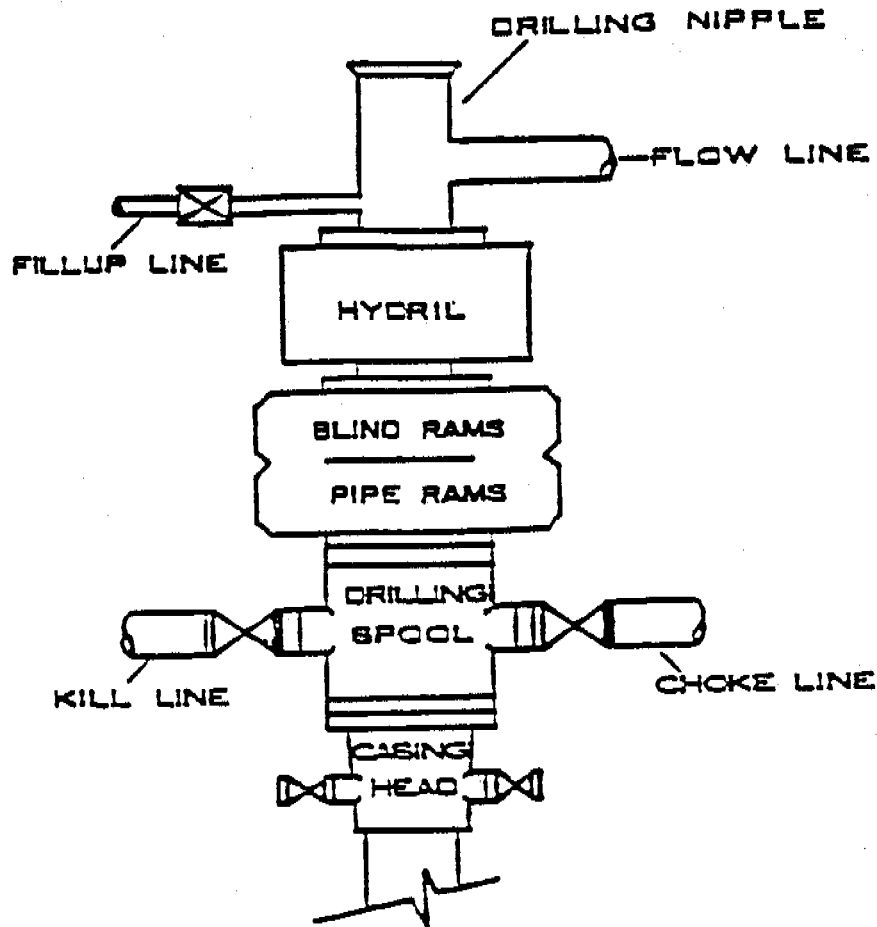
CUT	
(6") Topsoil Stripping	= 1,760 Cu. Yds.
Remaining Location	= 6,850 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 8,610 CU.YDS.</b>
<b>FILL</b>	<b>= 4,890 CU.YDS.</b>

EXCESS MATERIAL	= 3,720 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 3,720 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 0 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

3,000 PSI

## BOP STACK



003

**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 09/21/2004

API NO. ASSIGNED: 43-047-35945

WELL NAME: NBU 1022-160OPERATOR: WESTPORT OIL & GAS CO ( N2115 )CONTACT: SHEILA UPCHEGOPHONE NUMBER: 435-781-7024

## PROPOSED LOCATION:

SWSE 16 100S 220E

SURFACE: 0817 FSL 2290 FEL

BOTTOM: 0817 FSL 2290 FEL

UINTAH

NATURAL BUTTES ( 630 )

LEASE TYPE: 3 - State

LEASE NUMBER: ML3276

SURFACE OWNER: 3 - State

PROPOSED FORMATION: WSMVD

COALBED METHANE WELL? NO

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering	<i>DRD</i>	<i>10/27/04</i>
Geology		
Surface		

LATITUDE: 39.94386

LONGITUDE: -109.4428

## RECEIVED AND/OR REVIEWED:

☒ Plat

☒ Bond: Fed[] Ind[] Sta[] Fee[]  
 (No. RLB0005236 )

☒ Potash (Y/N)

☒ Oil Shale 190-5 (B) or 190-3 or 190-13

☒ Water Permit  
 (No. 43-8496 )

☒ RDCC Review (Y/N)  
 (Date: \_\_\_\_\_ )

☒ Fee Surf Agreement (Y/N)

## LOCATION AND SITING:

     R649-2-3.Unit NATURAL BUTTES     R649-3-2. GeneralSiting: 460 From Qtr/Qtr & 920' Between Wells     R649-3-3. Exception☒ Drilling UnitBoard Cause No: 173-14Eff Date: 12-2-1999Siting: 400' Fr u bdy of Unlmm. Tract     R649-3-11. Directional Drill

COMMENTS:

Needs Presu (10-20-04)

STIPULATIONS:

1 - OIL SHALE2 - Surface Csg Cont Strip2 - STATEMENT OF BASIS





# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

September 29, 2004

Memorandum

To: Assistant District Manager Minerals, Vernal District  
From: Michael Coulthard, Petroleum Engineer  
Subject: 2004 Plan of Development Natural Buttes Unit  
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2004 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
-------	-----------	----------

(Proposed PZ Mesaverde)

43-047-35943	NBU 1022-16H Sec 16 T10S R22E 2169 FNL 1298 FEL	
43-047-35944	NBU 1022-16K Sec 16 T10S R22E 1835 FSL 2535 FWL	
43-047-35945	NBU 1022-16O Sec 16 T10S R22E 0817 FSL 2290 FEL	
43-047-35946	NBU 1022-16A Sec 16 T10S R22E 0763 FNL 1096 FEL	
43-047-35947	NBU 1022-16C Sec 16 T10S R22E 0695 FNL 2163 FWL	
43-047-35948	NBU 1022-16G Sec 16 T10S R22E 1603 FNL 2126 FEL	
43-047-35949	NBU 1022-16E Sec 16 T10S R22E 2281 FNL 0718 FWL	

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File - Natural Buttes Unit  
Division of Oil Gas and Mining  
Central Files  
Agr. Sec. Chron  
Fluid Chron

MCoulthard:mc:9-29-04



**From:** Ed Bonner  
**To:** Whitney, Diana  
**Date:** 10/7/2004 3:06:34 PM  
**Subject:** Well Clearance

The following wells have been given cultural resource clearance by the Trust Lands Cultural Resources Group:

MSC Exploration LP  
State MSC 35-2  
North Thompson 2-1

Medallion Exploration  
Atchee Ridge 16-19 #1

QEP Uinta Basin, Inc  
CB 13G-36-6-20

Prima Oil & Gas Company  
State Lost Creek 32-44  
(Must avoid site in access road)

Westport Oil & Gas Company  
NBU 1022-16H  
NBU 1022-16K  
NBU 1022-16O  
NBU 1022-16A  
NBU 1022-16C  
NBU 1022-16G  
NBU 1022-16E  
NBU 1022-16M

Merrion Oil & Gas Corporation  
Scud 1  
Sparkle Dun 1

If you have any questions regarding this matter please give me a call.

**CC:** Garrison, LaVonne; Hill, Brad; Hunt, Gil

**DIVISION OF OIL, GAS AND MINING  
APPLICATION FOR PERMIT TO DRILL  
STATEMENT OF BASIS**

**OPERATOR:** WESTPORT OIL AND GAS COMPANY, L.P.  
**WELL NAME & NUMBER:** NBU 1022-160  
**API NUMBER:** 43-047-35945  
**LOCATION:** 1/4, 1/4 SW/SE Sec: 16 TWP: 10S RNG: 22E 2290' FEL 817' FSL

**Geology/Ground Water:**

Westport proposes to set 1,900' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 3,100'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the proposed location. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water.

**Reviewer:** Brad Hill **Date:** 10/25/04

**Surface:**

The predrill investigation of the surface was performed on 10/20/04. Floyd Bartlett with DWR and Ed Bonner with SITLA were invited to this investigation on 10/06/04. Mr. Bartlett was present. He had no concerns regarding the construction of this location or the drilling of the well. This site is on State surface, with State minerals, and appears to be the best site for a location in the immediate area. Mr. Bartlett gave Ms. Domenici a prescribed seed mix to be used when reserve pit is reclaimed. An existing two track road crosses what will be the east corner of this location. It will not be necessary to re-route this road.

**Reviewer:** David W. Hackford **Date:** 10/21/2004

**Conditions of Approval/Application for Permit to Drill:**

None.

**ON-SITE PREDRILL EVALUATION**  
**Division of Oil, Gas and Mining**

OPERATOR: WESTPORT OIL AND GAS COMPANY, L.P.

WELL NAME & NUMBER: NBU 1022-160

API NUMBER: 43-047-35945

LEASE: ML-3276 FIELD/UNIT: NATURAL BUTTES

LOCATION: 1/4, 1/4 SW/SE Sec: 16 TWP: 10S RNG: 22E 2290' FEL 817' FSL

LEGAL WELL SITING: 460 F SEC. LINE; 460 F 1/4, 1/4 LINE; 460 F ANOTHER WELL.

GPS COORD (UTM): 633034E 4422493N SURFACE OWNER: STATE OF UTAH

**PARTICIPANTS**

DAVID W. HACKFORD (DOGM), FLOYD BARTLETT (DWR), CLAY EINERSON, DEBRA DOMENICI (WESTPORT), KOLBY KAY, (UELS).

**REGIONAL/LOCAL SETTING & TOPOGRAPHY**

SITE IS IN A RELATIVELY FLAT AREA OF LOW RIDGES AND SHALLOW DRAWS DRAINING GRADUALLY FOR 2.0 MILES TO THE NORTH, THEN 1.5 MILES TO THE NORTHEAST TO THE WHITE RIVER. BREAKS OF BITTER CREEK CANYON HEAD 1.0 MILES TO THE EAST. BITTER CREEK IS 1.5 MILES TO THE EAST. OURAY, UTAH IS 33.6 MILES TO THE NORTHWEST.

**SURFACE USE PLAN**

CURRENT SURFACE USE: WILDLIFE AND LIVESTOCK GRAZING, HUNTING.

PROPOSED SURFACE DISTURBANCE: LOCATION WILL BE 350' BY 273'. ACCESS ROAD WILL BE 300 FEET.

LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS: SEE ATTACHED MAP FROM GIS DATABASE.

LOCATION OF PRODUCTION FACILITIES AND PIPELINES: ALL PRODUCTION FACILITIES WILL BE ON LOCATION AND ADDED AFTER DRILLING WELL. PIPELINE WILL FOLLOW ACCESS ROAD.

SOURCE OF CONSTRUCTION MATERIAL: ALL CONSTRUCTION MATERIAL WILL BE BORROWED FROM SITE DURING CONSTRUCTION OF LOCATION.

ANCILLARY FACILITIES: NONE WILL BE REQUIRED.

WILL DRILLING AT THIS LOCATION GENERATE PUBLIC INTEREST OR CONCERNS?  
EXPLAIN: UNLIKELY.

**WASTE MANAGEMENT PLAN:**

DRILLED CUTTINGS WILL BE SETTLED INTO RESERVE PIT. LIQUIDS FROM PIT WILL BE ALLOWED TO EVAPORATE. FORMATION WATER WILL BE CONFINED TO STORAGE

TANKS. SEWAGE FACILITIES, STORAGE AND DISPOSAL WILL BE HANDLED BY  
COMMERCIAL CONTRACTOR. TRASH WILL BE CONTAINED IN TRASH BASKETS AND  
HAULED TO AN APPROVED LAND FILL.

**ENVIRONMENTAL PARAMETERS**

AFFECTED FLOODPLAINS AND/OR WETLANDS: NONE

FLORA/FAUNA: SAGE, GREASEWOOD, HALOGETON, PRICKLY PEAR, SHADSCALE,  
HORSEBRUSH: PRONGHORN, RODENTS, SONGBIRDS, RAPTORS, COYOTE, RABBITS.

SOIL TYPE AND CHARACTERISTICS: LIGHT BROWN SANDY CLAY.

EROSION/SEDIMENTATION/STABILITY: VERY LITTLE NATURAL EROSION.  
SEDIMENTATION AND STABILITY ARE NOT A PROBLEM AND LOCATION CONSTRUCTION  
SHOULDN'T CAUSE AN INCREASE IN STABILITY OR EROSION PROBLEMS.

PALEONTOLOGICAL POTENTIAL: NONE OBSERVED

**RESERVE PIT**

CHARACTERISTICS: 150' BY 100' AND 10' DEEP.

LINER REQUIREMENTS (Site Ranking Form attached): A LINER WILL NOT BE  
REQUIRED FOR RESERVE PIT.

**SURFACE RESTORATION/RECLAMATION PLAN**

AS PER SITLA.

SURFACE AGREEMENT: AS PER SITLA.

CULTURAL RESOURCES/ARCHAEOLOGY: SITE WAS INSPECTED BY MONTGOMERY  
ARCHEOLOGICAL CONSULTANTS. A REPORT OF THIS INVESTIGATION WILL BE PLACED ON  
FILE.

**OTHER OBSERVATIONS/COMMENTS**

THIS PREDRILL INVESTIGATION WAS CONDUCTED ON A COOL, CLOUDY, WINDY DAY  
WITH NO SNOW COVER.

**ATTACHMENTS**

PHOTOS OF THIS SITE WERE TAKEN AND PLACED ON FILE.

DAVID W. HACKFORD  
DOGM REPRESENTATIVE

10/20/04, 10:30 AM  
DATE/TIME

**Evaluation Ranking Criteria and Ranking Score  
For Reserve and Onsite Pit Liner Requirements**

<u>Site-Specific Factors</u>	<u>Ranking</u>	<u>Site Ranking</u>
Distance to Groundwater (feet)		
>200	0	
100 to 200	5	
75 to 100	10	
25 to 75	15	
<25 or recharge area	20	<u>0</u>
Distance to Surf. Water (feet)		
>1000	0	
300 to 1000	2	
200 to 300	10	
100 to 200	15	
< 100	20	<u>0</u>
Distance to Nearest Municipal Well (feet)		
>5280	0	
1320 to 5280	5	
500 to 1320	10	
<500	20	<u>0</u>
Distance to Other Wells (feet)		
>1320	0	
300 to 1320	10	
<300	20	<u>0</u>
Native Soil Type		
Low permeability	0	
Mod. permeability	10	
High permeability	20	<u>10</u>
Fluid Type		
Air/mist	0	
Fresh Water	5	
TDS >5000 and <10000	10	
TDS >10000 or Oil Base Mud Fluid	15	
containing significant levels of hazardous constituents	20	<u>5</u>
Drill Cuttings		
Normal Rock	0	
Salt or detrimental	10	<u>0</u>
Annual Precipitation (inches)		
<10	0	
10 to 20	5	
>20	10	<u>0</u>
Affected Populations		
<10	0	
10 to 30	6	
30 to 50	8	
>50	10	<u>0</u>
Presence of Nearby Utility Conduits		
Not Present	0	
Unknown	10	
Present	15	<u>0</u>

**Final Score**      15      (Level II Sensitivity)

Sensitivity Level I = 20 or more; total containment is required.

Sensitivity Level II = 15-19; lining is discretionary.

Sensitivity Level III = below 15; no specific lining is required.





# 10-04 Westport NBU 1022-150

## Casing Schematic

Surface

TOC @ 0.

TOC @ 541.

Surface 1900. MD

9-5/8" MW 8.4  
Frac 19.3

4-1/2" MW 10.

Production 8800. MD

propose Surface

w/ 18% Washout  
Surface w/ 8% w.o.

1175 Green River  
1565 TOC Tail

3100 BMSW  
3200 TOC Tail

4175 Wasatch

w/ 15% Washout

6650 Mesaverde

BHP

$$(0.052)(10)(8800) = 4576$$

Anticipate 3520

G<sub>as</sub>

$$(0.10)(8800) = 1056$$

MASP = 3520

Fluid

$$(0.22)(8800) = 1936$$

MASP = 2640

BOA - 3000 ✓

Surf Csg - 2270

70% = 1589

Test to 1500 psi (as proposed) ✓

Adequate DWD 10/27/04



Well name:

**10-04 Westport NBU 1022-160**Operator: **Westport Oil & Gas**String type: **Surface**

Project ID:

43-047-35945

Location: **Uintah****Design parameters:****Collapse**Mud weight: 8.400 ppg  
Design is based on evacuated pipe.**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**H2S considered? No  
Surface temperature: 65 °F  
Bottom hole temperature: 92 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,500 ft

Cement top: 541 ft

**Burst**Max anticipated surface  
pressure: 1,672 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP 1,900 psi

No backup mud specified.

**Tension:**8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Tension is based on buoyed weight.

Neutral point: 1,666 ft

Non-directional string.

**Re subsequent strings:**Next setting depth: 8,800 ft  
Next mud weight: 10.000 ppg  
Next setting BHP: 4,571 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 1,900 ft  
Injection pressure 1,900 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	1900	9.625	32.30	H-40	ST&C	1900	1900	8.876	120.4
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	829	1370	1.652	1900	2270	1.19	54	254	4.72 J

Prepared Clinton Dworshak  
by: Utah Div. of Oil & MiningPhone: 801-538-5280  
FAX: 801-359-3940Date: October 26, 2004  
Salt Lake City, Utah**Remarks:**

Collapse is based on a vertical depth of 1900 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop &amp; Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

Well name:	<b>10-04 Westport NBU 1022-160</b>	
Operator:	<b>Westport Oil &amp; Gas</b>	Project ID:
String type:	<b>Production</b>	<b>43-047-35945</b>
Location:	<b>Uintah</b>	

**Design parameters:**
**Collapse**

Mud weight: 10.000 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**
**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 65 °F  
Bottom hole temperature: 188 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,500 ft

Cement top: Surface

**Burst**

Max anticipated surface pressure: 3,515 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP 4,571 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Non-directional string.

Tension is based on buoyed weight.  
Neutral point: 7,484 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	8800	4.5	11.60	L-80	LT&C	8800	8800	3.875	204
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	4571	6350	1.389	4571	7780	1.70	87	212	2.44 J

Prepared by: Clinton Dworshak  
Utah Div. of Oil & Mining

Phone: 801-538-5280  
FAX: 801-359-3940

Date: October 26, 2004  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 8800 ft, a mud weight of 10 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*



State of Utah

Department of  
Natural Resources

ROBERT L. MORGAN  
*Executive Director*

Division of  
Oil, Gas & Mining

LOWELL P. BRAXTON  
*Division Director*

OLENE S. WALKER  
*Governor*

GAYLE F. McKEACHNIE  
*Lieutenant Governor*

October 27, 2004

Westport Oil & Gas Company, LP  
1368 S 1200 E  
Vernal, UT 84078

Re: Natural Buttes Unit 1022-160 Well, 817' FSL, 2290' FEL, SW SE, Sec. 16,  
T. 10 South, R. 22 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-35945.

Sincerely,

A handwritten signature in black ink, appearing to read "John R. Baza".

John R. Baza  
Associate Director

pab  
Enclosures

cc: Uintah County Assessor  
SITLA  
Bureau of Land Management, Vernal District Office

Operator: Westport Oil & Gas Company, LP  
Well Name & Number Natural Buttes Unit 1022-16O  
API Number: 43-047-35945  
Lease: ML3276

Location: SW SE                      Sec. 16                      T. 10 South                      R. 22 East

### Conditions of Approval

1. **General**

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

2. **Notification Requirements**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- 24 hours prior to cementing or testing casing
- 24 hours prior to testing blowout prevention equipment
- 24 hours prior to spudding the well
- within 24 hours of any emergency changes made to the approved drilling program
- prior to commencing operations to plug and abandon the well

The following are Division of Oil, Gas and Mining contacts and their work telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at (801) 538-5338
- Carol Daniels at (801) 538-5284 (spud)

3. **Reporting Requirements**

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.

5. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.

Page 2

API #43-047-35945

October 27, 2004

6. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)
7. Surface casing shall be cemented to the surface.

**STATE OF UTAH**  
**DEPARTMENT OF NATURAL RESOURCES**  
**DIVISION OF OIL, GAS AND MINING**

005

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT -- for such proposals		6. Lease Designation and Serial Number ML-3276
		7. Indian Allottee or Tribe Name N/A
		8. Unit or Communitization Agreement NATURAL BUTTES
		9. Well Name and Number NBU 1022-160
1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other (specify)		10. API Well Number 43-047-35945
2. Name of Operator WESTPORT OIL & GAS COMPANY, L.P.		11. Field and Pool, or Wildcat NATURAL BUTTES
3. Address of Operator 1368 SOUTH 1200 EAST, VERNAL, UT 84078	4. Telephone Number 435-781-7044	
5. Location of Well Footage : 817' FSL, 2290' FEL      County : UINTAH QQ, Sec. T., R., M : SWSE, SECTION 16, T10S, R22E, SLB&M      State : UTAH		
12. <b>CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		

**NOTICE OF INTENT**  
 (Submit in Duplicate)

- |   |   |
|---|---|
| <input type="checkbox"/> Abandonment                                    | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Casing Repair                                  | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans                                | <input type="checkbox"/> Recompletion         |
| <input type="checkbox"/> Conversion to Injection                        | <input type="checkbox"/> Shoot or Acidize     |
| <input type="checkbox"/> Fracture Treat                                 | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Multiple Completion                            | <input type="checkbox"/> Water Shut-Off       |
| <input checked="" type="checkbox"/> Other <u>LOCATION LAYOUT CHANGE</u> |   |

Approximate Date Work Will Start \_\_\_\_\_

**SUBSEQUENT REPORT**  
 (Submit Original Form Only)

- |  |   |
|--|---|
| <input type="checkbox"/> Abandonment *           | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Casing Repair           | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans         | <input type="checkbox"/> Shoot or Acidize     |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Fracture Treat          | <input type="checkbox"/> Water Shut-Off       |
| <input type="checkbox"/> Other _____             |   |

Date of Work Completion \_\_\_\_\_

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

\* Must be accompanied by a cement verification report.

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

WESTPORT OIL & GAS COMPANY, L.P. HAS NEED TO CHANGE THE ORIGINAL LOCATION LAYOUT TO ACCOMMODATE FOR A LARGER RIG; PIONEER 38.

PLEASE REFER TO THE ATTACHED LOCATION LAYOUT.

COPY SENT TO OPERATOR  
 DATE: 3-7-05  
 BY: CHD

**RECEIVED**  
**MAR 01 2005**  
 DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct.

 Name & Signature Raleen Weddle Title Associate Regulatory Date 02/16/05

(State Use Only)

3/3/05  
 Det King

**FIGURE #1**

NBU #1022-160

SECTION 16, T10S, R22E, S.L.B.&M.

817' FSL 2290' FEL

*F-1.2'*  
*El. 92.3'*

*F-1.8'*  
*El. 91.7'*

Proposed Access  
Road

*F-5.8'*  
*El. 87.7'*

SCALE: 1" = 50'

DATE: 8-11-04

Drawn By: K.G.

Rev: 12-1-04 E.C.O.

**NOTE:**

Flare Pit is to be located  
a min. of 100' from the  
Well Head.

Existing  
Road

Approx.  
Top of  
Cut Slope

*Reserve Pit Backfill  
& Spoils Stockpile*

*Pit Topsoil*

C-3.0'  
El. 96.5'

C-1.5'  
El. 95.0'

$F-2.0'$   
 $FL\ 91.5'$

El. 98.6'  
**C-15.1'**  
(btm. pit)

RESERVE PITS  
(10' Deep)

Total Pit Capacity  
W/2' of Freeboard  
= 15,490 Bbls.  $\pm$   
Total Pit Volume  
= 4,280 Cu. Yds.

El. 98.3'  
C-14.8'  
(btm. pit)

C-0.5  
El. 94.0'

**F-1.6**  
FL 91.9'

*F-7.9'*  
*El. 85.6'*

NOTES:

Elev. Ungraded Ground At Loc. Stake = 5295.0'

FINISHED GRADE ELEV. AT LOC. STAKE = 5293.5'

UINTAH ENGINEERING & LAND SURVEYING

85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

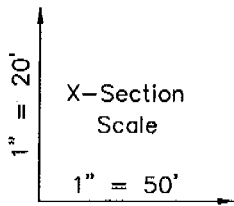
# WESTPORT OIL AND GAS COMPANY, L.P.

## TYPICAL CROSS SECTIONS FOR

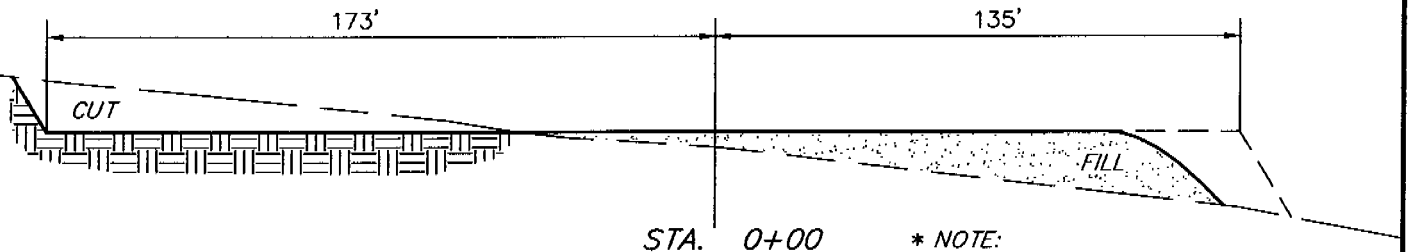
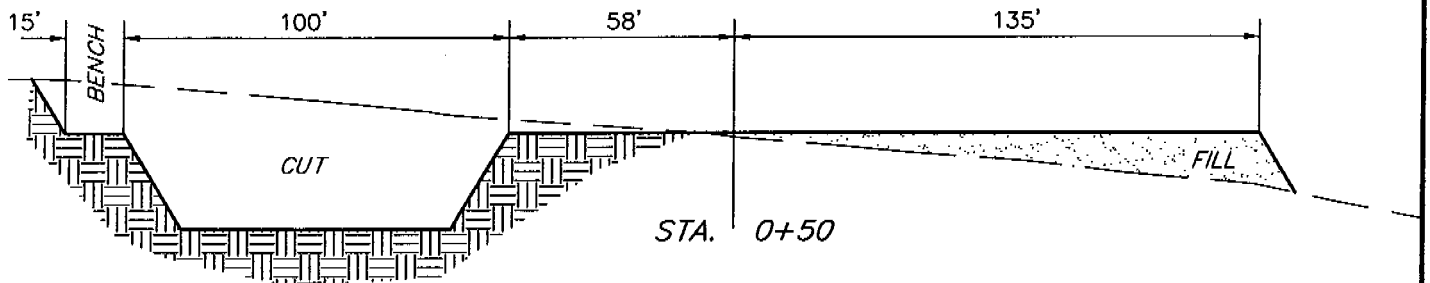
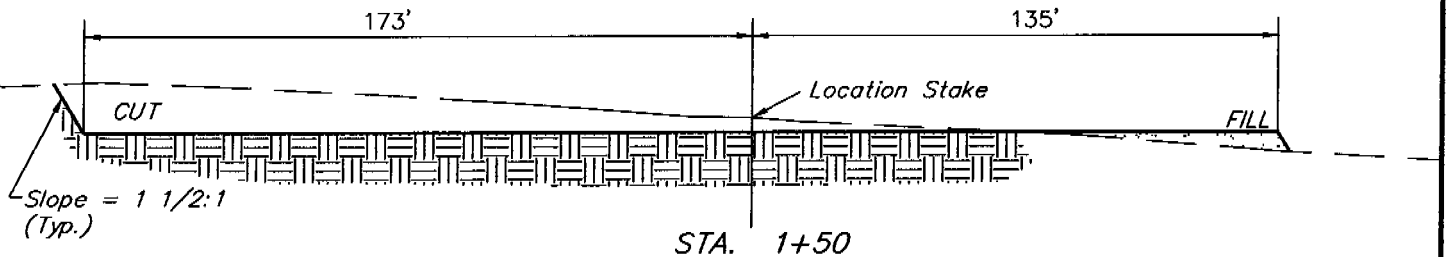
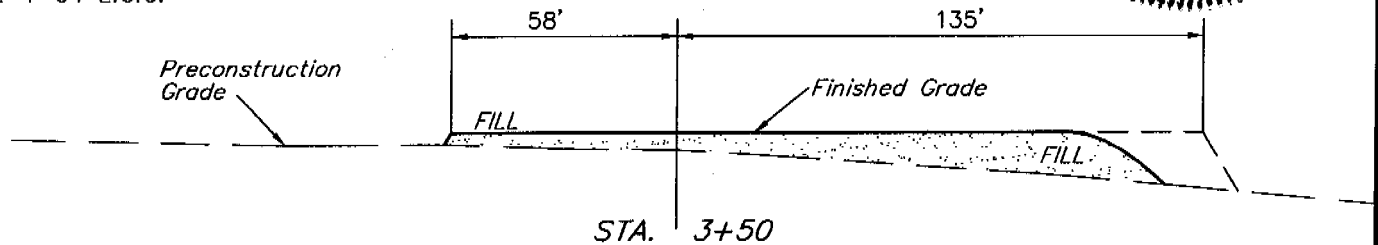
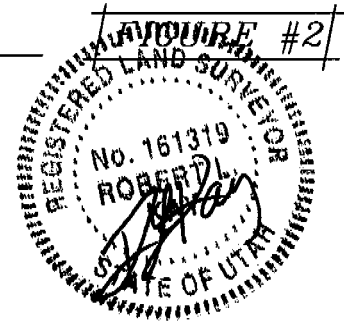
NBU #1022-160

SECTION 16, T10S, R22E, S.L.B.&M.

817' FSL 2290' FEL



DATE: 8-11-04  
Drawn By: K.G.  
Rev: 12-1-04 E.C.O.



\* NOTE:  
FILL QUANTITY INCLUDES  
5% FOR COMPACTION

### APPROXIMATE YARDAGES

CUT		
(6") Topsoil Stripping	= 1,830	Cu. Yds.
Remaining Location	= 7,550	Cu. Yds.
<b>TOTAL CUT</b>	<b>= 9,380</b>	<b>CU.YDS.</b>
<b>FILL</b>	<b>= 5,410</b>	<b>CU.YDS.</b>

EXCESS MATERIAL	= 3,970	Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 3,970	Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 0	Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017



**DIVISION OF OIL, GAS AND MINING****SPUDDING INFORMATION**Name of Company: WESTPORT OIL & GAS COMPANY LPWell Name: NBU 1022-160Api No: 43-047-35945 Lease Type: STATESection 16 Township 10S Range 22E County UINTAHDrilling Contractor PETE MARTIN'S RIG # BUCKET**SPUDDED:**Date 04/14/05Time How DRY**Drilling will Commence:** Reported by RON SJOSTROMTelephone # 1-435-828-0982Date 04/15/2005 Signed CHD

007

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
ENTITY ACTION FORM - FORM 6

OPERATOR WESTPORT O&G COMPANY L.P.  
ADDRESS 1368 SOUTH 1200 EAST  
VERNAL, UTAH 84078

OPERATOR ACCT. NO. N 2115

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	2900	43-047-35945	NBU 1022-160	SWSE	16	10S	22E	UINTAH	4/14/2005	4/21/05 K
WELL 1 COMMENTS: <i>WSMVB</i> MIRU PETE MARTIN BUCKET RIG SPUD WELL LOCATION ON 4/14/05 AT 9:00 AM											
ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	2900	43-047-35869	NBU 1022-30A	NENE	30	10S	22E	UINTAH	4/13/2005	4/21/05 K
WELL 2 COMMENTS: <i>WVRD = WSMVB</i> MIRU PETE MARTIN BUCKET RIG SPUD WELL LOCATION ON 4/13/05 AT 12:00 PM											
ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
WELL 3 COMMENTS:											
ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
WELL 4 COMMENTS:											
ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code is (3/89)

Post-it® Fax Note 7671		Date	# of Pages
To: <i>EDDIE RUSSEN</i>	From: <i>STEVE WICKER</i>		
Co./Dept: <i>UTAH OIL &amp; GAS</i>	Co.: <i>UTAH OIL &amp; GAS</i>		
Phone #: <i>(801) 530-5320</i>	Phone: <i>(435) 781-7024</i>		
Fax: <i>(801) 349-3440</i>	Fax #: <i>(435) 781-7094</i>		

*Mark Lyden*  
Signature  
REGULATORY ANALYST 04/18/05  
Title Date  
RECEIVED (435) 781-7024

APR 18 2005

DIV. OF OIL, GAS & MINING

P. 01  
FAX NO. 4357817094  
APR-18-2005 MON 02:30 PM EL PASO PRODUCTION

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-3276
2. NAME OF OPERATOR: WESTPORT OIL & GAS COMPANY L.P.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1368 S. 1200 E. CITY VERNAL STATE UT ZIP 84078		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES UNIT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 817'FSL & 2290'FEL		8. WELL NAME and NUMBER: NBU 1022-160
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 16 10S 22E		9. API NUMBER: 4304735945
COUNTY: UINTAH		10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
STATE: UTAH		

**11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 4/19/2005	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: WELL SPUD
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 37# STL CONDUCTOR PIPE. CMT W/28 SX READY MIX.

MIRU BILL MARTIN AIR RIG. DRILLED 12 1/4" SURFACE HOLE TO 1970'. RAN 9 5/8" 32.3# H-40 SURFACE CSG. LEAD CMT W/170 SX 16% GEL + 10#/SK GILSONITE + 3% SALT + 1/4#/SK FLOCELE 3#/SX GR-3 CLASS G @11.0 PPG 3.82 YIELD. TAILED W/225 SX 2%CACL2 1/4#/SK FLOCELE CLASS G @15.6 PPG 1.18 YIELD. FLOATS NOT HOLDING. TOP OUT W/450 SX 4% CACL2 + 1/4#/SK FLOCELE CLASS G @16.0 PPG 1.10 YIELD.

SPUD WELL LOCATION ON 4/14/05 AT 9:00 AM.

NAME (PLEASE PRINT) SHEILA UPCHEGO

TITLE REGULATORY ANALYST

SIGNATURE

DATE 4/19/2005

(This space for State use only)

RECEIVED  
APR 26 2005  
DIV. OF OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-3276
2. NAME OF OPERATOR: WESTPORT OIL & GAS COMPANY L.P.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NATURAL BUTTES UNIT
3. ADDRESS OF OPERATOR: 1368 S. 1200 E. CITY VERNAL STATE UT ZIP 84078		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES UNIT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 817'FSL & 2290'FEL		8. WELL NAME and NUMBER: NBU 1022-160
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 16 10S 22E		9. API NUMBER: 4304735945
COUNTY: UINTAH		10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 5/1/2005	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: DRILLING OPERATIONS
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

FINISHED DRILLING FROM 1970' TO 8700'. RAN 4 1/2" 11.6# I-80 PRODUCTION CSG. LEAD CMT W/350 SX PREM LITE II @11.2 PPG. TAILED W/1680 SX 50/50 POZ @14.3 PPG 1.31 YIELD.

RELEASED CAZA 81 ON 5/2/05 AT 1300 HRS.

NAME (PLEASE PRINT) SHEILA UPCHEGO

TITLE REGULATORY ANALYST

SIGNATURE

DATE 5/3/2005

(This space for State use only)

RECEIVED

MAY 10 2005

DIV. OF OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-3276
2. NAME OF OPERATOR: WESTPORT OIL & GAS COMPANY L.P.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NATURAL BUTTES UNIT
3. ADDRESS OF OPERATOR: 1368 S. 1200 E. CITY VERNAL STATE UT ZIP 84078		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES UNIT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 817'FSL & 2290'FEL		8. WELL NAME and NUMBER: NBU 1022-160
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 16 10S 22E		9. API NUMBER: 4304735945
COUNTY: UINTAH		10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>PRODUCTION START-UP</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE SUBJECT WELL LOCATION WAS PLACED ON PRODUCTION ON 5/17/05 AT 9:45 AM.

PLEASE REFER TO THE ATTACHEHD CHONOLOGICAL WELL HISTORY.

RECEIVED

MAY 23 2005

DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) SHEILA UPCHEGO

TITLE REGULATORY ANALYST

SIGNATURE

DATE

5/19/2005

(This space for State use only)

# WESTPORT OIL & GAS COMPANY, LP

## CHRONOLOGICAL HISTORY

NBU 1022-160

	SPUD	Surface Casing Air Rig	Activity	Status
03/24/05			Build Location, 25% complete	Caza 81
03/25/05			Build Location, 35% complete	Caza 81
03/28/05			Build Location, 35% complete	Caza 81
03/29/05			Build Location, 55% complete	Caza 81
03/30/05			Build Location, 55% complete	Caza 81
03/31/05			Build Location, 55% complete	Caza 81
04/01/05			Build Location, 55% complete	Caza 81
04/04/05			Build Location, 55% complete	Caza 81
04/05/05			Build Location, 55% complete	Caza 81
04/06/05			Build Location, 95% complete	Caza 81
04/07/05			Build Location, 95% complete	Caza 81
04/08/05			Build Location, 95% complete	Caza 81
04/11/05			Build Location, 95% complete	Caza 81
04/12/05			Build Location, 95% complete	Caza 81
04/13/05			Build Location, 95% complete	Caza 81
04/14/05			Build Location, 95% complete	Caza 81
04/15/05			Build Location, 95% complete	Caza 81
04/18/05	4/16/05	14" @ 40'	MIAR. Drill to 1970'. Run csg	Caza 81
04/19/05	4/16/05	9 5/8" @1942'		WORT Caza 81
04/20/05	4/16/05	9 5/8" @1942'		WORT Caza 81
04/21/05	TD: 1970'	Csg. 9 5/8" @ 1942'	MW: 8.4 SD: 4/X/05	DSS: 0
	MIRU. 95% rigged up. Nipple up BOP @ report time.			

04/22/05 TD: 1970' Csg. 9 5/8" @ 1942' MW: 8.4 SD: 4/X/05 DSS: 1  
Test BOP. PUBHA & DP. Drill cmt & FE. Drill 1948' - 2610' DA @ report time.

04/25/05 TD: 7057' Csg. 9 5/8" @ 1942' MW: 8.8 SD: 4/21/05 DSS: 4  
Drill from 2610'-7057'. DA @ report time.

04/26/05 TD: 7730' Csg. 9 5/8" @ 1942' MW: 9.3 SD: 4/21/05 DSS: 5  
Drill from 7057'-7730'. Close in mud system and mud up @ 7437. DA @ report time.

04/27/05 TD: 7912' Csg. 9 5/8" @ 1942' MW: 9.3 SD: 4/21/05 DSS: 6  
Drill from 7730'-7912'. TFNB and MM. TIH to 4000'. Repair pressure sensor on standpipe @ report time.

04/28/05 TD: 8235' Csg. 9 5/8" @ 1942' MW: 10.6 SD: 4/21/05 DSS: 7  
FIH. Drill from 7912'-8235'. DA @ report time.

04/29/05 TD: 8369' Csg. 9 5/8" @ 1942' MW: 11.0 SD: 4/21/05 DSS: 8  
Drill from 8235'-8369'. TFNB @ report time.

05/02/05 TD: 8700' Csg. 9 5/8" @ 1942' MW: 11.8 SD: 4/21/05 DSS: 11  
Drill from 8369'-8700' TD. Short trip and CCH for logs. Run Triple Combo. CCH for casing. Lay down drill string. Run 4 1/2" Production Casing. Cement casing @ report time.

05/03/05 TD: 8700' Csg. 9 5/8" @ 1942' MW: 11.8 SD: 4/21/05 DSS: 11  
Finish cementing 4.5" casing. Set slips, NDBOPE, cut casing, clean mud tanks, and released rig @ 1300 hrs. Moving rig to NBU 1022-20C @ report time.

05/10/05 PROG: 7:00 AM (DAY 1) HELD SAFETY MEETING. ROAD RIG FROM FEDERAL 1022-15J TO NBU 1022-160. SPOT EQUIPMENT & RU RIG, NDWH NUBOP'S, PU MILL & SUB, PU 206 JTS 2-3/8 J-55 TBG OFF TRAILER DRIFT & TALLY. EOT @ 6,655.78' SWI SDFN 5:30 PM.

05/11/05 PROG: 7:00 AM (DAY 2) HELD SAFETY MEETING. CONT RIH TAG PBTD @ 8,651' 268 JTS RU RIG PMP REVERSE CIRC 40 BBLS POOH LD 40 JTS 2-3/8" TBG CONT. POOH STAND BACK 114 STANDS CHANGE PIPE RAMS TO BLIND RAMS MIRU CUTTERS TO LOG & PERF RIH TAG PBTD @ 8,637' LOG FROM PBTD TO SURFACE GOOD BOND MIRU SCHLUMBERGER FOR FRAC. MIRU B&C QUICK TEST TO PRESS TEST CSG & BOP'S TO 7,500# PRESS UP TO 1,000# W/RIG PMP, CONT. UP TO 7,500# W/QUICK TEST. TEST BOTH RAMS & CSG TESTED GOOD, RDMO B&C QUICK TEST, PU 3-3/8" EXP GUNS 23 GRM .35 HOLES RIH & PERF 8,500' - 8,504' 4SPF 90 DEG PHASING, & 8,192' - 8,196' 2SPF 180 DEG PHASING (24 HOLES) POOH W/WIRE LINE. RDMO CUTTER, CHANGE 7-1/16 5K FLANGE TO 4-1/16 10K FLANGE FOR FRAC SWI SDFN 6:00 PM.

05/12/05 PROG: 7:00 AM (DAY 3) HELD SAFETY MEETING. MIRU CUTTERS & SCHLUMBERGER TO FRAC & PERF, PRESS TEST SURFACE LINES TO 8,408#, NO LEAKS.

STAGE #1: WHP: 1550#, BRK 3825# @ 5.3 BPM, ISIP: 2570#, FG: .74, PMP 41 BPM @ 5150# FOR 153 BBLS PRE PAD: 23 OF 24 HOLES OPEN PMP 1322 BBLS YF 120 ST+, PMP 140,000# 20/40 SD (200# PROPNET) ISIP: 2807#, FG: .77, NPI: 237#, MP: 7271#, MR: 43.9 BPM, AP: 4190#, AR: 37.2 BPM.

STAGE #2: RIH W/3-3/8" EXP GUNS 23 GRM .35 HOLES 90 DEG PHASING & CBP SET 5K BAKER CPB @ 8122' PERF MV @ 8052 - 8058' 4SPF (24 HOLES) BRK 4198#, @ 5.8 BPM, ISIP: 2450#, FG: .74, PMP 18 BBLS @ 36.2 BPM @ 5770#, 18 OF 24 HOLES OPEN PMP 867

BBLS YF 120 ST+, PMP 103,000# 20/40 SD (150 # PROPNET) ISIP: 3145#, FG: .82, NPI: 695#, MP: 6134#, MR: 36.6 BPM, AP: 4033#, AR: 35 BPM.

STAGE #3: RIH W/3-3/8" EXP GUNS 23 GRM .35 HOLES 90 DEG PHASING & CBP SET 5K BAKER CPB @ 6908' PERF MV 6660' - 6664' & 6872' - 6878' 4SPF (40 HOLES) BRK 3019# @ 5.1 BPM, ISIP: 1450#, FG: .65. PMP 14 BBLS @ 51.8 BPM @ 4600#, 34 OF 40 HOLES OPEN PMP 1812 BBLS YF 118 ST+, PMP 240,000 # 20/40 SD, (350# PROPNET) ISIP: 2620#, FG: .82#, NPI: 695#, MP: 4855#, MR: 54.9 BPM, AP: 3973#, AR: 48 BPM.

STAGE #4: RIH W/3-3/8" EXP GUNS 23 GRM .35 HOLES 90 DEG PHASING & CBP SET 5K BAKER CPB @ 5490' PERF WASATCH @ 5464' - 5470' 4SPF (24 HOLES) BRK 3298# @ 5.1 BPM, ISIP: 938#, FG: .61. PMP 15 BBLS @ 35 BPM @ 2850#, 22 OF 24 HOLES OPEN PMP 871 BBLS YF 118 ST+, PMP 102,000 # 20/40 SD, (150 # PROPNET) ISIP: 2150#, FG: .83, NPI: 1,212#, MP: 3349#, MR: 42.9 BPM, AP: 2565#, AR: 34.4 BPM.

STAGE #5: RIH W/3-3/8" EXP GUNS 23 GRM .35 HOLES 90 DEG PHASING & CBP SET 5K BAKER CPB @ 5090' PERF WASATCH @ 5062' - 5066' 4SPF (16 HOLES) BRK 2884# @ 5.1 BPM, ISIP: 1020#, FG: .64. PMP 14 BBLS @ 30 BPM @ 2580#, 15 OF 16 HOLES OPEN PMP 670 BBLS YF 118 ST+, PMP 70,640 # 20/40 SD, (100 # PROPNET) ISIP: 2259#, FG: .88, NPI: 1,239#, MP: 3310#, MR: 30.2 BPM, AP: 2559#, AR: 28.8 BPM. (KILL PLG) RIH & SET 5K BAKER CPB @ 4,950'. POOH W/WIRE LINE. RDMO CUTTERS & SCHLUMBERGER. CHANGE BLIND RAMS TO PIPE RAMS. SWI, SDFN, 5:30 PM.

05/13/05

PROG: 7:00 AM (DAY4) HELD SAFETY MEETING. PU 3-7/8" BIT & FAST EDDIE POBS W/NC RIH W/154 JTS 2-3/8" TBG. RU PWR SWIVEL. C/O 8' SD TAG 1ST PLG @ 4950' DRL IN 7 MIN & 300# INCREASE. RIH C/O 35' SD TAG 2ND PLG @ 5090' DRL IN 10 MIN & 600# INCREASE. RIH C/O 15' SD TAG 3RD PLG @ 5490' DRL IN 10 MIN & 300# INCREASE. RIH C/O 30' SD TAG 4TH PLG @ 6908' DRL IN 15 MIN & 500# INCREASE. RIH C/O 55' SD TAG 5TH PLG @ 8,122' DRL IN 15 MIN \$ 1,200# INCREASE. RIH C/O SD TO PBTB @ 8651' RD PWR SWVL POOH, LD 20 JTS HANGE OFF TBG 248 JTS 2-3/8" J-55 4.7# TBG EOT @ 8,012.75' ND BOP'S DROP BALL NUWH PMP OFF POBS @ 1,500#. TURN WL OVER TO FLOWBACK CREW. TLTR: 5,542 BBLS, RECVD BY RIG DURING DRL OUT 2,325 BBLS = 3,217 BBLS LTR. SDFN 5:30 PM.

05/16/05

PROG: 05/14/05: WELL ON FLOWBACK, FLOWBACK REPORT: CP: 1200#, TP: 900#, 22/64 CHK, 40 BWPH, 24 HRS, SD: LIGHT, TTL BBLS FLWD: 960, TODAYS LTR: 2587 BBLS, LOAD REC TODAY: 960 BBLS, REMAING LTR: 1,627 BBLS, TOTAL LOAD REC TO DATE: 3,915 BBLS.

05/15/05: WELL ON FLOWBACK, FLOWBACK REPORT: CP: 1700#, TP: 950#, 22/64 CHK, 30 BWPH, 24 HRS, SD: TRACE, TTL BBLS FLWD: 755, TODAYS LTR: 1627 BBLS, LOAD REC TODAY: 755 BBLS, REMAINING LTR: 872 BBLS, TOTAL LOAD REC TO DATE: 4,670 BBLS.

5/16/05: WELL ON FLOWBACK, FLOWBACK REPORT: CP: 1550#, TP: 850#, 22/64 CHK, 25 BWPH, 24 HRS, SD: CLEAN, TTL BBLS FLWD: 660, TODAYS LTR: 872 BBLS, LOAD REC TODAY: 660 BBLS, REMAINING LTR: 212 BBLS, TOTAL LOAD REC TO DATE: 5,330 BBLS.

05/17/05

PROG: WELL ON FLOWBACK, FLOWBACK REPORT: CP: 1500#, TP: 800#, 22/64 C HK, 20 BWPH, 24 HRS, SD: CLEAN, TTL BBLS FLWD: 535, TODAYS LTR: 212 BBLS, LOAD REC TODAY: 535 BBLS, REMAINING LTR: -323 BBLS, TOTAL LOAD REC TO DATE: 5,865 BBLS.

05/18/05

PROG: WELL WENT ON SALES. 5/17/05, 9:45 AM, 1700 MCF, 24/64 CHK, SICP: 1600#,



FTP: 1111#, 34 BWPH. FINAL REPORT FOR COMPLETION.

**05/19/05**

**ON SALES**

05/17/05: 599 MCF, 0B C, 655 BW, TP: 663#, CP: 1252#, 24/64 CHK, 19 HRS, LP: 384#.

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ FORM 8

(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:  
ML-3276

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER

b. TYPE OF WORK: NEW WELL ☒ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER

2. NAME OF OPERATOR:  
WESTPORT OIL & GAS COMPANY L.P.

7. UNIT or CA AGREEMENT NAME  
NATURAL BUTTES UNIT

8. WELL NAME and NUMBER:  
NBU 1022-160

3. ADDRESS OF OPERATOR:  
1368 S. 1200 E. CITY VERNAL STATE UT ZIP 84078

PHONE NUMBER:  
(435) 781-7024

10 FIELD AND POOL, OR WILDCAT  
NATURAL BUTTES

4. LOCATION OF WELL (FOOTAGES)

AT SURFACE: 817'FSL & 2290'FEL

AT TOP PRODUCING INTERVAL REPORTED BELOW:

AT TOTAL DEPTH:

11. QTR/QTR, SECTION, TOWNSHIP, RANGE,  
MERIDIAN:  
SWSE 16 10S 22E

12. COUNTY  
UINTAH

13. STATE  
UTAH

14. DATE SPUDDED: 4/14/2005 15. DATE T.D. REACHED: 5/2/2005 16. DATE COMPLETED: 5/17/2005 ABANDONED ☐ READY TO PRODUCE ☒

17. ELEVATIONS (OF, RKB, RT, GL):  
5295'GL

18. TOTAL DEPTH: MD 8,700  
TVD

19. PLUG BACK T.D.: MD 8,637  
TVD

20. IF MULTIPLE COMPLETIONS, HOW MANY? \*

21. DEPTH BRIDGE MD  
PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)

CBL-CCL-GR

23.  
WAS WELL CORED? NO ☒ YES ☐ (Submit analysis)  
WAS DST RUN? NO ☒ YES ☐ (Submit report)  
DIRECTIONAL SURVEY? NO ☒ YES ☐ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	37#		40		28			
12 1/4"	9 5/8 H-40	32.3#		1,970		845			
7 7/8	4 1/2 I-80	11.6#		8,700		2030			

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	8,013							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) WASATCH	5,062	5,470			5,062 5,470	0.35	40	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B) MESAVERDE	6,660	8,504			6,660 8,504	0.35	88	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

27. PERFORATION RECORD

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
5062'-5470'	PMP 1541 BBLS YF118ST & 172,640# 20/40 JORDAN SD
6660'-8504'	PMP 4001 BBLS YF118ST & 483,000# 20/40 JORDAN SD

29. ENCLOSED ATTACHMENTS:

☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☐ DIRECTIONAL SURVEY  
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER:

30. WELL STATUS:

PROD

RECEIVED

JUN 13 2005

## 31. INITIAL PRODUCTION

## INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 5/17/2005		TEST DATE: 5/18/2005		HOURS TESTED: 24		TEST PRODUCTION RATES: →		OIL – BBL: 0		GAS – MCF: 901		WATER – BBL: 624		PROD. METHOD: FLOWING							
CHOKE SIZE: 24/64		TBG. PRESS. 594		CSG. PRESS. 115		API GRAVITY		BTU – GAS		GAS/OIL RATIO		24 HR PRODUCTION RATES: →		OIL – BBL: 0		GAS – MCF: 901		WATER – BBL: 624		INTERVAL STATUS: PROD	

## INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED: 5/17/2005		TEST DATE: 5/18/2005		HOURS TESTED: 24		TEST PRODUCTION RATES: →		OIL – BBL: 0		GAS – MCF: 901		WATER – BBL: 624		PROD. METHOD: FLOWING	
CHOKE SIZE: 24/64	TBG. PRESS. 594	CSG. PRESS. 115	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 901	WATER – BBL: 624	INTERVAL STATUS: PROD					

## INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

## INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

## 32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

SOLD

## 33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
WASATCH MESAVERDE	4,214 6,626	6,626			

## 35. ADDITIONAL REMARKS (Include plugging procedure)

## 36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) SHEILA UPCHEGO

TITLE REGULATORY ANALYST

SIGNATURE

DATE 5/31/2005

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

\* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

\*\* ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:

ML-3276

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

NATURAL BUTTES UNIT

8. WELL NAME and NUMBER:

NBU 1022-160

9. API NUMBER:

4304735945

10. FIELD AND POOL, OR WILDCAT:

NATURAL BUTTES

1. TYPE OF WELL

OIL WELL ☐

GAS WELL ☒

OTHER

2. NAME OF OPERATOR:

WESTPORT OIL & GAS COMPANY L.P.

3. ADDRESS OF OPERATOR:

1368 S. 1200 E.

CITY VERNAL

STATE UT

ZIP 84078

PHONE NUMBER:

(435) 781-7024

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 817'FSL & 2290'FEL

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 16 10S 22E

STATE:

UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☐ NOTICE OF INTENT  
(Submit in Duplicate)

Approximate date work will start:

☒ SUBSEQUENT REPORT  
(Submit Original Form Only)

Date of work completion:

☐ ACIDIZE

☐ ALTER CASING

☐ CASING REPAIR

☐ CHANGE TO PREVIOUS PLANS

☐ CHANGE TUBING

☐ CHANGE WELL NAME

☐ CHANGE WELL STATUS

☐ COMMINGLE PRODUCING FORMATIONS

☐ CONVERT WELL TYPE

☐ DEEPEN

☐ FRACTURE TREAT

☐ NEW CONSTRUCTION

☐ OPERATOR CHANGE

☐ PLUG AND ABANDON

☐ PLUG BACK

☐ PRODUCTION (START/RESUME)

☐ RECLAMATION OF WELL SITE

☐ RECOMPLETE - DIFFERENT FORMATION

☐ REPERFORATE CURRENT FORMATION

☐ SIDETRACK TO REPAIR WELL

☐ TEMPORARILY ABANDON

☐ TUBING REPAIR

☐ VENT OR FLARE

☐ WATER DISPOSAL

☐ WATER SHUT-OFF

☒ OTHER: MAINTENANCE

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

LOE -- RAISE TUBING

9/29/05 7:00 AM HSM, RU RIG & SPOT RIG PUMP, PUMP 10 BBLS 2% KCL WATER  
DOWN TUBING, TUBING DEAD ND WH NU BOP'S  
POOH W/ 25 JTS 2 3/8" J-55 LD ON TRAILER  
LAND TUBING W/ 223 JTS IN WELL EOT @ 7,204.92'  
ND BOP'S NU WH SWI TURN OVER TO PRODUCTION 11:00 AM

SLICKLINE

10/18/05 Apparent scale hanging up plunger. RU Wireline. Pull plunger & spring. Run TD. Fluid level: 6300'. Plunger:  
7195'. SN Depth: 7195'. Tagged fill: 8562'.

NAME (PLEASE PRINT)

SHEILA UPCHEGO

TITLE

REGULATORY ANALYST

SIGNATURE

DATE

10/27/2005

(This space for State use only)

RECEIVED

NOV 02 2005

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>ML-3276</b>
2. NAME OF OPERATOR: <b>WESTPORT OIL &amp; GAS COMPANY L.P.</b>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1368 S. 1200 E. CITY <b>VERNAL</b> STATE <b>UT</b> ZIP <b>84078</b>		7. UNIT or CA AGREEMENT NAME: <b>NATURAL BUTTES UNIT</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>817'FSL &amp; 2290'FEL</b>		8. WELL NAME and NUMBER: <b>NBU 1022-160</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>SWSE 16 10S 22E</b>		9. API NUMBER: <b>4304735945</b>
		10. FIELD AND POOL, OR WILDCAT: <b>NATURAL BUTTES</b>
		COUNTY: <b>UINTAH</b>
		STATE: <b>UTAH</b>

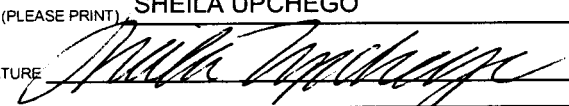
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <b>MAINTENANCE</b>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

11/21/05 PROG: ROAD RIG F/STATE 1021-36B TO NBU 1022-160 SPOT IN EQUIP RU SICP: 1500#. BLOW WL DN KILL W/20 BBL 2% ND TREE, NU BOP UNLAND TBG TALLY & PU RIH W/25 JTS 2-3/8 LAND ON WL HEAD W/273 JTS 2-3/8 EOT 7997.21 ND BOP, NU TREE. RD, MOVE.

12/19/05 PROG: ROAD WEATHERFORD CAPILLARY TRUCK TO LOCATION. CHECK CSG PRES 1700#. FETCH 2-3/8" COUPLING TO RU CAPILLARY HANGER & INJECTOR ON TOP OF LUBRICATOR. ATTEMPT TO CLOSE MASTER VALVE. VALVE NOT CLOSING COMPLETELY, SEEMS TO BE PACKED WITH ICE OR TRASH. ALTERNATE BLOWING TBG & WORKING VALVE. FINALLY GET VALVE TO CLOSE AFTER BLOWING TBG DEAD. RU WEATHERFORD INJECTOR. CHARGE DNHOLE INJECTION MANDREL TO 3200# BACKPRESS. INSTALL 3/4" OD INJECTION MANDREL ON CAPILLARY STRING. CHARGE SACRIFICIAL PACKOFF ON INJECTOR. START RUNNING 1/4" CAPILLARY STRING IN HOLE @ 50 FPM. INCREASE SPEED TO 100+ FPM @ 2000'. SLOW DN WHEN GOING THROUGH SN & GOING OUT EOT @ 7997'. LAND STRING @ 8180' (ESTIMATE 10' OF STRETCH, END OF STRING @ +/-8190'). TOOK 1.75 HOURS TO RUN STRING. RELEASE SACRIFICIAL PACKOFF & ENERGIZE PERMANENT PACKOFF IN HANGER ASSY TO 3000#. SET SLIPS ON CAPILLARY STRING. SPOOL OFF AN EXTRA 50' OF CAPILLARY & CUT OFF. ASSEMBLE SUNPUMPER CHEMICAL PMP (10 GPD @ 1500# MODEL) & HOOK UP NALCO BF-1 FOAMING CHEMICAL TO CAPILLARY. LEAVE PMP RUNNING TO FILL STRING OVERNIGHT. RDMO. ENTIRE JOB TOOK 3.75 HOURS

NAME (PLEASE PRINT) <u>SHEILA UPCHEGO</u>	TITLE <u>REGULATORY ANALYST</u>
SIGNATURE 	DATE <u>1/10/2006</u>

(This space for State use only)

JAN 17 2006

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

**ROUTING**

1. DJJ

2. CDW

**X Change of Operator (Well Sold)**

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

**1/6/2006**

**FROM:** (Old Operator):

N2115-Westport Oil & Gas Co., LP

1368 South 1200 East

Vernal, UT 84078

Phone: 1-(435) 781-7024

**TO:** ( New Operator):

N2995-Kerr-McGee Oil & Gas Onshore, LP

1368 South 1200 East

Vernal, UT 84078

Phone: 1-(435) 781-7024

**CA No.**

**Unit:**

**NATURAL BUTTES UNIT**

WELL NAME

SEC TWN RNG

API NO

ENTITY

LEASE

WELL

WELL

NO

TYPE

TYPE

STATUS

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 5/10/2006

2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 5/10/2006

3. The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 3/7/2006

4a. Is the new operator registered in the State of Utah: YES Business Number: 1355743-0181

4b. If **NO**, the operator was contacted on:

5a. (R649-9-2)Waste Management Plan has been received on: IN PLACE

5b. Inspections of LA PA state/fee well sites complete on: n/a 3 LA wells & all PA wells transferred

5c. Reports current for Production/Disposition & Sundries on: ok

6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 3/27/2006 BIA not yet

7. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: 3/27/2006

8. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

9. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to**

**Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on:

**DATA ENTRY:**

1. Changes entered in the **Oil and Gas Database** on: 5/15/2006

2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 5/15/2006

3. Bond information entered in RBDMS on: 5/15/2006

4. Fee/State wells attached to bond in RBDMS on: 5/16/2006

5. Injection Projects to new operator in RBDMS on:                     

6. Receipt of Acceptance of Drilling Procedures for APD/New on: n/a Name Change Only

**BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: CO1203

2. Indian well(s) covered by Bond Number: RLB0005239

3. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number RLB0005236

a. The **FORMER** operator has requested a release of liability from their bond on: n/a rider added KMG

The Division sent response by letter on:                     

**LEASE INTEREST OWNER NOTIFICATION:**

4. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 5/16/2006

**COMMENTS:**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

5. Lease Serial No.

MULTIPLE LEASES

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

MUTIPLE WELLS

9. API Well No.

10. Field and Pool, or Exploratory Area

11. County or Parish, State

UINTAH COUNTY, UTAH

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

KERR-McGEE OIL & GAS ONSHORE LP

3a. Address

1368 SOUTH 1200 EAST VERNAL, UT 84078

3b. Phone No. (include area code)

(435) 781-7024

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SEE ATTACHED

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other CHANGE OF OPERATOR
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

PLEASE BE ADVISED THAT KERR-McGEE OIL & GAS ONSHORE LP, IS CONSIDERED TO BE THE OPERATOR OF THE ATTACHED WELL LOCATIONS. EFFECTIVE JANUARY 6, 2006.

KERR-McGEE OIL & GAS ONSHORE LP, IS RESPONSIBLE UNDER TERMS AND CONDITIONS OF THE LEASE(S) FOR THE OPERATIONS CONDUCTED UPON LEASE LANDS. BOND COVERAGE IS PROVIDED BY STATE OF UTAH NATIONWIDE BOND NO. RLB0005237.

RECEIVED

MAY 10 2006

DIV. OF OIL, GAS & MINING

BLM BOND = C01203

BIA BOND = RLB0005239

APPROVED 5/16/06

Earlene Russell

Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

RANDY BAYNE

Title

DRILLING MANAGER

Signature

Date

May 9, 2006

THIS SPACE FOR FEDERAL OR STATE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

5. Lease Serial No.

MULTIPLE LEASES

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

MUTIPLE WELLS

9. API Well No.

10. Field and Pool, or Exploratory Area

11. County or Parish, State

UINTAH COUNTY, UTAH

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

WESTPORT OIL & GAS COMPANY L.P.

3a. Address

1368 SOUTH 1200 EAST VERNAL, UT 84078

3b. Phone No. (include area code)

(435) 781-7024

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SEE ATTACHED

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other CHANGE OF OPERATOR
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

EFFECTIVE JANUARY 6, 2006, WESTPORT OIL & GAS COMPANY L.P., HAS RELINQUISHED THE OPERATORSHIP OF THE ATTACHED WELL LOCATIONS TO KERR-McGEE OIL & GAS ONSHORE LP.

APPROVED 5/16/06  
*Earlene Russell*  
Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician

RECEIVED  
MAY 10 2006

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

BRAD LANEY

Signature

Title

ENGINEERING SPECIALIST

Date

May 9, 2006

THIS SPACE FOR FEDERAL OR STATE USE

Approved by

*Brad Laney*

Title

Date

5-9-06

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-3276
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT or CA AGREEMENT NAME: UNIT #891008900A
8. WELL NAME and NUMBER: NBU 1022-160
9. API NUMBER: 4304735945
10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES

1. TYPE OF WELL OIL WELL ☐ GAS WELL ☒ OTHER \_\_\_\_\_

2. NAME OF OPERATOR:  
KERR MCGEE OIL & GAS ONSHORE LP

3. ADDRESS OF OPERATOR:  
1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078

PHONE NUMBER:  
(435) 781-7024

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 817'FSL, 2290'FEL

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 16 10S 22E

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will start: 7/10/2008	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON	
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE	
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of work completion:	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input checked="" type="checkbox"/> WATER SHUT-OFF	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____	
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION		

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

ON 06/16/2008, THE OPERATOR CONDUCTED A WATER SHUT-OFF ON THE SUBJECT WELL LOCATION. THE OPERATOR PROPOSES TO SQUEEZE AT 5062'-5066' THE OPERATOR WILL HAVE A RIG ON LOCATION ON THURSDAY, JULY 10, 2008.

PLEASE REFER TO THE ATTACHED CHRONOLOGICAL WELL HISTORY.

**COPY SENT TO OPERATOR**

Date: 7-10-2008

Initials: KS

NAME (PLEASE PRINT) SHEILA UPCHEGO

TITLE SENIOR LAND ADMIN SPECIALIST

SIGNATURE

DATE 6/19/2008

(This space for State use only)

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DATE: 7/8/08  
BY: [Signature]

(See Instructions on Reverse Side)

RECEIVED

JUL 08 2008

DIV. OF OIL, GAS & MINING

## **NBU 1022-160 WATER SHUT-OFF PROCEDURE**

- 1) MIRU. N/D WH. N/U BOPE. POOH W/TUBING (EOT – 7995')
- 2) P/U BIT AND CLEAN-OUT WELL TO 5200'. POOH.
- 3) R/U WIRELINE AND LUBRICATOR. RIH W/4-1/2" CBP ON WIRELINE AND SET SAME @ ~5125'. POOH. RIH W/4-1/2" CICR ON TUBING AND SET SAME @ ~4985'.
- 4) FILL HOLE AND PRESSURE TEST CASING TO 2000 PSI. STING INTO CICR AND ESTABLISH INJECTION RATE.
- 5) R/U CEMENT COMPANY AND PUMP RECOMMENDED CEMENT JOB INTO PERFORATIONS AT 5062-5066'. REVERSE CIRCULATE TUBING CLEAN. POOH W/STINGER. WOC.
- 6) RIH W/ 3-7/8" BIT. D-O CICR AND CEMENT TO ~5080'. PRESSURE TEST CASING AND PERFORATIONS TO 2000 PSI FOR 10 MINUTES. RESQUEEZE IF NECESSARY. POOH.
- 7) RIH W/ 3-7/8" BIT AND POBS. D-O CBP AND C-O TO PBTD @ ~8651'. PUMP-OFF BIT AND SUB ON BOTTOM AS WELL BEHAVIOR DICTATES.
- 8) P/U TUBING AND LAND SAME AT ~7800'.
- 9) N/D BOPE. N/U WH. RDMO AND RTP. SWAB WELL IN IF NECESSARY.

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-3276
2. NAME OF OPERATOR: KERR McGEE OIL & GAS ONSHORE LP		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078		7. UNIT or CA AGREEMENT NAME: UNIT #891008900A
4. LOCATION OF WELL FOOTAGES AT SURFACE: 817'FSL, 2290'FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 16 10S 22E		8. WELL NAME and NUMBER: NBU 1022-160
PHONE NUMBER: (435) 781-7024		9. API NUMBER: 4304735945
		10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
		COUNTY: UINTAH
		STATE: UTAH

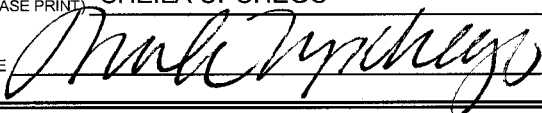
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON	
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 7/11/2008	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input checked="" type="checkbox"/> WATER SHUT-OFF	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____	
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION		

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

ON 07/07/2008, THE OPERATOR CONDUCTED A WATER SHUT-OFF ON THE SUBJECT WELL LOCATION. THE OPERATOR PLACED THE SUBJECT WELL LOCATION BACK ON PRODUCTION.

PLEASE REFER TO THE ATTACHED WATER SHUT-OFF CHRONOLOGICAL WELL HISTORY.

NAME (PLEASE PRINT) SHEILA UPCHEGO	TITLE REGULATORY ANALYST
SIGNATURE 	DATE 7/14/2008

(This space for State use only)

RECEIVED

JUL 21 2008

DIV. OF OIL, GAS & MINING

WINS No.: 72179 NBU 1022-160 Start Date: 7/7/2008

AFE No.: 88007902 Operation Summary Report End Date:

Operator		FIELD NAME	SPUD DATE	GL	KB	ROUTE
KERR MCGEE OIL & GAS ONSHORE LP		NATURAL BUTTES	4/21/05	5,293	5308	RUN 18
API	STATE		COUNTY	DIVISION		
4304735945	UTAH		UINTAH	ROCKIES		
Lat./Long.: Lat./Long.: 39.94395 / -109.44350		Q-Q/Sect/Town/Range: SWSE / 16 / 10S / 22E		Footages: 817.00' FSL 2,290.00' FEL		
MTD	TVD	LOG MD	PBMD	PBTVD		
8700	0		8650	8650		

**EVENT INFORMATION:** EVENT ACTIVITY: WORKOVER / REPAIR REASON: WSO - SQZ PERFS  
 OBJECTIVE: SECONDARY DATE WELL STARTED/RESUMED:  
 OBJECTIVE2: CEMENT SQUEEZE Event End Status:

**RIG OPERATIONS:** Begin Mobilization Rig On Location Rig Charges Rig Operation Start Finish Drilling Rig Release Rig Off Location

DOUBLE HOOK / UNK

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation
7/7/2008	SUPERVISOR: FRANK WINN 8:00 - 16:00	8.00	WO/REP	32			SITP 2300, SICP 1600. PUMPER OPENED WELL TO SALES. TEST FOR H2S. FOUND 20 PPM H2S. MOVE IN RIG PUMP AND PUMP 30 BBLS 2% DOWN CSG AND 25 BBLS DOWN TBG W/ H2S SCAVENGER. WELL DEAD. MIRU W/FORD CAPILARY UNIT. UNHANG 1/4" CAP STRING FROM TOP OF WH (CAP STRING RUN INSIDE OF TBG). CAP STRING PULLING OVER. WORK CAP STRING UP AND DOWN. ABLE TO MOVE 30' UPHOLE THEN BECAME STRUCK. SUSPECT CAP STRING STUCK IN SCALE IN TBG IN. SHUT WELL IN.
7/8/2008	SUPERVISOR: FRANK WINN 7:30 - 13:00	5.50		30			PUMP 30 BBLS 2% W/ H2S SCAVENGER, 165-GAL 31% HCL W/ INHIBITORS, FLUSH W/ 40 BBLS 2% W/ H2S SCAVENGER. WORK CAP STRING FREE, PULLING BUT DRAGGING. POOH W. 8109' THEN CAP STRING QUIT PULLING. WORKING CAP STRING IT PARTED IN INJECTER HEAD. REMOVE INJECTER HEAD AND PACK OFF. FOUND KINK IN CAP STRING. STRIP OUT OF HOLE W/ REMAINING 90'. RECOVERED FOOT VALVE.RDMO W/FORD CAP UNIT. SHUT WELL IN.
7/10/2008	SUPERVISOR: FRANK WINN 7:00 - 15:00	8.00	WO/REP	30		P	HSM. ROAD RIG AND EQUIP FROM NBU 1022-18B TO LOCATION. RUSU. PUMP 6 BBLS 2% DOWN TBG. ND WH. NU BOP. LAY FLOW BACK LINES AND OPEN CSG TO FLOW BACK TANK. RU FLOOR. TEST FOR H2S. 1ST READING 80 PPM, 2ND READING 120 PPM. SHUT WELL IN. MIX 60 BBLS 2% PILL W/ 30 GAL H2S SCAVENGER AND PUMP DOWN CSG. LEFT WELL SHUT IN. SDFN.
7/11/2008	SUPERVISOR: FRANK WINN 7:00 - 17:30	10.50	WO/REP	30		P	HSM. SITP 500, SICP 800. TEST FOR H2S. 0-PPM. OPEN CSG TO FBT. PUMP BBLS DOWN TBG. UNLAND TBG FROM 7995'. LUB OUT AND LD HANGER. POOH AS SB 248 JTS 2-3/8" J-55 TBG. FOUND BAD SCALE IN ID 2232-4464', BAD SCALE ON OD 4836'-6138', AND BAD PITTING ON OD 6500' TO EOT 7997'. RU CASED HOLE EWL AND RUN 3.64" OD GR/JB TO 5200'. GOOD. RIH AND SET BAKER 8K CBP AT 5125'. RUN IN W/ BAD TBG AND LD SAME. HAVE 166-JTS BAD AND 82-JTS GOOD. SDFN. PUMPED 75 BBLS TODAY. CUMM 271. RCVR 35 BBLS, CUMM 35.



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

April 14, 2011

CERTIFIED MAIL NO.: 7005 1820 0001 5562 9054

Ms. Julie Jacobson  
Kerr McGee Oil and Gas  
1099 18<sup>th</sup> St, Ste 1800  
Denver CO 80202

43 047 35945  
NBU 1022-160  
103 22E 16

Subject: **SECOND NOTICE: Extended Shut-in and Temporarily Abandoned Well Requirements for Wells on Fee or State Leases**

Dear Ms. Jacobson:

As of January 2011, Kerr McGee Oil and Gas (Kerr McGee) has one (1) Fee Lease Well and sixteen (16) State Lease Wells (see Attachment A) that are in non-compliance with the requirements for extended shut-in or temporarily abandoned (SI/TA) status. Wells SI/TA beyond twelve (12) consecutive months requires the filing of a Sundry Notice in accordance with R649-3-36-1 for Utah Division of Oil, Gas & Mining (Division) approval. Wells with five (5) years non-activity or non-productivity shall be plugged, unless the Division grants approval for extended shut-in time upon a showing of good cause by the operator (R649-3-36-1.3.3).

This is the **SECOND NOTICE** of non-compliance that Kerr McGee has received for wells listed as such on Attachment A. In March and April 2009 via certified mail the first notices were sent requesting required information to bring wells into compliance. Kerr McGee sent response dated April 7, 2009, which listed future plans for the wells. The Division sent Kerr McGee a "request denied" (in regard to SI/TA extension status) dated April 28, 2009. This denial was sent due to lack of addressing the requirements per Rule R649-3-36. Second notices were sent via certified mail in July 2009. Additional correspondence from Kerr McGee was received and four (4) of the aforementioned wells (Attachment A) had been granted SI/TA extensions which have since expired. To date the Division has not received additional information nor seen any progress being made to move the wells out of non-compliance status.

This is also a **reissuance of a FIRST NOTICE** for wells listed as such on Attachment A as they previously had notices sent on October 1, 2008. It is also a First Notice for wells that have recently been added to Kerr McGee's non compliance list. Please submit the required information for extended SI/TA status within 30 days of this notice or further actions will be initiated.



Page 2  
Kerr McGee Oil and Gas  
April 14, 2011

For extended SI/TA consideration the operator shall provide the Utah Division of Oil, Gas & Mining with the following:

1. Reasons for SI/TA of the well (R649-3-36-1.1).
2. The length of time the well is expected to be SI/TA (R649-3-36-1.2), and
3. An explanation and supporting data if necessary, for showing the well has integrity, meaning that the casing, cement, equipment condition, static fluid level, pressure, existence or absence of Underground Sources of Drinking Water and other factors do not make the well a risk to public health and safety or the environment (R649-3-36-1.3).

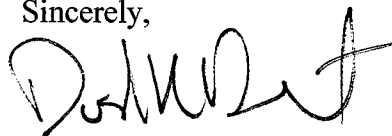
Please note that the Divisions preferred method for showing well integrity is by MIT

Submitting the information suggested below may help show well integrity and may help qualify your well for extended SI/TA. **Note: As of July 1, 2003, wells in violation of the SI/TA rule R649-3-36 may be subject to full cost bonding (R649-3-1-4.2, 4.3).**

1. Wellbore diagram, and
2. Copy of recent casing pressure test, and
3. Current pressures on the wellbore (tubing pressure, casing pressure, and casing/casing annuli pressure) showing wellbore has integrity, and
4. Fluid level in the wellbore, and
5. An explanation of how the submitted information proves integrity.

If the required information is not received within 30 days of the date of this notice, further actions may be initiated. If you have any questions concerning this matter, please contact me at (801) 538-5281.

Sincerely,



Dustin K. Doucet  
Petroleum Engineer

DKD/JP/js  
Enclosure  
cc: Compliance File  
Well File  
LaVonne Garrison, SITLA

# ATTACHMENT A

	Well Name	API	LEASE	Years Inactive	SI/TA Extension Expired On
<b>Reissued 2<sup>ND</sup> NOTICE</b>					
1	LOVE 1121-16F	43-047-36253	ML-46532	3 Years 2 Months	
2	NBU 1021-1G	43-047-39001	ML-23612	3 Years 2 Months	12/31/2010
3	NBU 1022-13I4S	43-047-39475	STUO-08512-ST	3 Years 2 Months	12/13/2010
4	NBU 3-2B	43-047-30267	ML-22651	3 Years 5 Months	
<b>Reissued 1<sup>ST</sup> NOTICE</b>					
5	BONANZA 1023-16J	43-047-37092	ML-22186-A	3 Years 10 Months	12/31/2010
6	NBU 921-34J	43-047-37953	STATE	3 Years 6 Months	9/01/2009
<b>1<sup>ST</sup> NOTICE</b>					
7	HALL ET AL 31 18	43-047-30664	FEE	2 Years 5 Months	
8	STATE 921-27L	43-047-32466	U-01194AST	2 Years 2 Months	
9	NBU 1022-16O	43-047-35945	ML-3276	2 Years 2 Months	
10	NBU 1022-16E	43-047-35949	ML-3276	1 Year 1 Month	
11	LOOKOUT POINT STATE 1-16	43-047-30544	ML-22186-A	1 Year 9 Months	
12	CIGE 79D	43-047-30896	ML-23612	1 Year 1 Month	
13	CIGE 240	43-047-33207	ML-22935	1 Year 9 Months	
14	OURAY 32-146	43-047-33623	ML-22052	1 Year 9 Months	
15	NBU 921-34L	43-047-36388	STUO-1194-AST	1 Year 9 Months	
16	NBU 921-33J	43-047-36394	STUO-015630-ST	1 Year 11 Months	
17	NBU 438-19E	43-047-37534	ML-22792	1 Year	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ML3276
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 1022-160
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0817 FSL 2290 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSE Section: 16 Township: 10.0S Range: 22.0E Meridian: S		<b>9. API NUMBER:</b> 43047359450000
<b>PHONE NUMBER:</b> 720 929-6515 Ext		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 5/26/2011	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input checked="" type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <span style="border: 1px solid black; display: inline-block; width: 100px; height: 15px;"></span>
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:			
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:			
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  

This sundry notice of intent is being submitted on behalf of the Natural Buttes Unit. The State Lease Number for this well is ML 3276. Kerr-McGee respectfully requests authorization to plug and abandon the subject well. Please see the attached procedure. Thank you.

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

**Date:** 06/20/2011

**By:** *Dan K. Quist*

<b>NAME (PLEASE PRINT)</b> Laura Abrams	<b>PHONE NUMBER</b> 720 929-6356	<b>TITLE</b> Regulatory Analyst II
<b>SIGNATURE</b> N/A	<b>DATE</b> 5/25/2011	

Please Review Attached Conditions of Approval

RECEIVED May. 25, 2011





**The Utah Division of Oil, Gas, and Mining**

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Sundry Conditions of Approval Well Number 43047359450000**

- 1. Notify the Division at least 24 hours prior to conducting abandonment operations. Please call Dan Jarvis at 801-538-5338.**
- 2. Surface reclamation shall be done in accordance with R649-3-34 – Well Site Restoration.**
- 3. Add Plug #3A: A 100' plug ( $\pm 8$  sx) shall be added from  $\pm 2020'$  to 1920' in order to isolate the base of the surface casing shoe as required by rule R649-3-24-3.6.**
- 4. All balanced plugs shall be tagged to ensure that they are at the depth specified.**
- 5. All annuli shall be cemented from a minimum depth of 100' to the surface.**
- 6. All requirements in the Oil and Gas Conservation General Rule R649-3-24 shall apply.**
- 7. If there are any changes to the procedure or the wellbore configuration, notify Dustin Doucet at 801-538-5281 (ofc) or 801-733-0983 (home) prior to continuing with the procedure.**
- 8. All other requirements for notice and reporting in the Oil and Gas Conservation General Rules shall apply.**

6/8/2011

## Wellbore Diagram

r263

API Well No: 43-047-35945-00-00

Permit No:

Well Name/No: NBU 1022-160

Company Name: KERR-MCGEE OIL &amp; GAS ONSHORE, L.P.

Location: Sec: 16 T: 10S R: 22E Spot: SWSE

Coordinates: X: 633038 Y: 4422477

Field Name: NATURAL BUTTES

County Name: UINTAH

## String Information

String	Bottom (ft sub)	Diameter (inches)	Weight (lb/ft)	Length (ft)
HOL1	40	20		
COND	40	14	37	40
HOL2	1970	12.25		
SURF	1970	9.625	32.3	1970
HOL3	8700	7.875		
PROD	8700	4.5	11.6	8700
T1	8013	2.375		

Cement from 40 ft.

Conductor: 14 in. @ 40 ft.

Hole: 20 in. @ 40 ft.

Plug #5

$$100' / (1.15 \times 0.0872) = 8.5X$$

TOC @ 50' O.K.

Plug #4

Cement from 1970 ft.

Surface: 9.625 in. @ 1970 ft.

Hole: 12.25 in. @ 1970 ft.

Plug #3A

$$100' / (1.15 \times 0.0872) = 8.5X$$

TOC @ 1920' O.K.

## Cement Information

String	BOC (ft sub)	TOC (ft sub)	Class	Sacks
COND	40		UK	28
PROD	8700	SFC	UK	2030
SURF	1970		UK	845

Plug #3

$$300' / (1.15 \times 0.0872) = 23.5X$$

TOC @ 2500' O.K.

Plug #2

$$210' / (1.15 \times 0.0872) = 16.5X$$

TOC @ 4110' O.K.

Plug #1

$$100' / (1.15 \times 0.0872) = 8.5X$$

TOC @ 4910' O.K.

## Perforation Information

Top (ft sub)	Bottom (ft sub)	Shts/Ft	No Shts	Dt Squeeze
5062	5470			
6660	8504			

## Formation Information

Formation	Depth
UNTA	0
GRRV	1052
PARCK	2662
WSTC	4214
BMSW	5312
MVRD	6626

Cement from 8700 ft.

Tubing: 2.375 in. @ 8013 ft.

Production: 4.5 in. @ 8700 ft.

&gt; 8504'

Hole: 7.875 in. @ 8700 ft.

TD: 8700 TVD: 8700 PBTD: 8637

**Name:** NBU 1022-160 5/12/11  
**Surface Location:** SWSE SEC.16, T10S, R22E  
 Uintah County, UT  
  
**API:** 4304735945 **LEASE#:** ML-3276  
  
**ELEVATIONS:** 5295' GL 5312' KB  
  
**TOTAL DEPTH:** 8700' **PBTD:** 8637'  
  
**SURFACE CASING:** 9 5/8", 32.3# H-40 @ 1970', 12 1/4" Hole  
  
**PRODUCTION CASING:** 4 1/2", 11.6# I-80 @ 8700', 7 7/8" Hole  
 TOC @ Surface per CBL  
  
**PERFORATIONS:** Wasatch 5062' - 5470'  
 Mesaverde 6660' - 8504'

Tubular/Borehole	Drift inches	Collapse psi	Burst Psi	Capacities		
				Gal./ft.	Cuft/ft.	Bbl./ft.
2.375" 4.7# J-55 tbg.	1.901	8100	7700	0.1626	0.02171	0.00387
4.5" 11.6# N/M/I-80 csg	3.875	6350	7780	0.6528	0.0872	0.0155
9.625" 32.3# H-40 csg	8.845	1400	2270	3.3055	0.4418	0.0787
<b>Annular Capacities</b>						
2.375" tbg. X 4.5" 11.6# csg.				0.4226	0.0565	0.01
4.5" csg. X 9.625" 32.3# csg.				2.478	0.3314	0.059
4.5" csg. X 7.875" hole				1.7052	0.2278	0.0406
9.625" csg. X 12.25" hole				2.3436	0.3132	0.0558

<b>Formation</b>	<b>Depth to top, ft.</b>	<b>Tech. Pub. #92 Base of USDW's</b>
Uinta	Surface	USDW Elevation ~0' MSL
Green River	1052'	USDW Depth ~5312' KBE
Base of Parachute	2662'	
Wasatch	4214'	
Mesaverde	6626'	

**NBU 1022-16E PLUG & ABANDONMENT PROCEDURE****GENERAL**

- H<sub>2</sub>S MAY BE PRESENT. CHECK FOR H<sub>2</sub>S AND TAKE APPROPRIATE PRECAUTIONS.
- CEMENT QUANTITIES BELOW ASSUME NEAT CLASS G, YIELD 1.145 CUFT./SX. IF A DIFFERENT PRODUCT IS USED, WELLSITE PERSONNEL ARE RESPONSIBLE FOR CORRECTING QUANTITIES TO YIELD THE STATED SLURRY VOLUME. WHEN SQUEEZING, INCLUDE 10% EXCESS PER 1000' OF DEPTH.
- TREATED FRESH WATER WILL BE PLACED BETWEEN ALL PLUGS INSTEAD OF BRINE.
- ALL DISPLACEMENT FLUID SHALL CONTAIN CORROSION INHIBITOR AND BIOCID. PREMIX 5 GALLONS PER 100 BBLs FLUID.
- PLUGS ARE TO BE TAGGED TO ENSURE THEY ARE AT DEPTH SPECIFIED.
- NOTIFY UDOGM 24 HOURS BEFORE MOVING ON LOCATION.

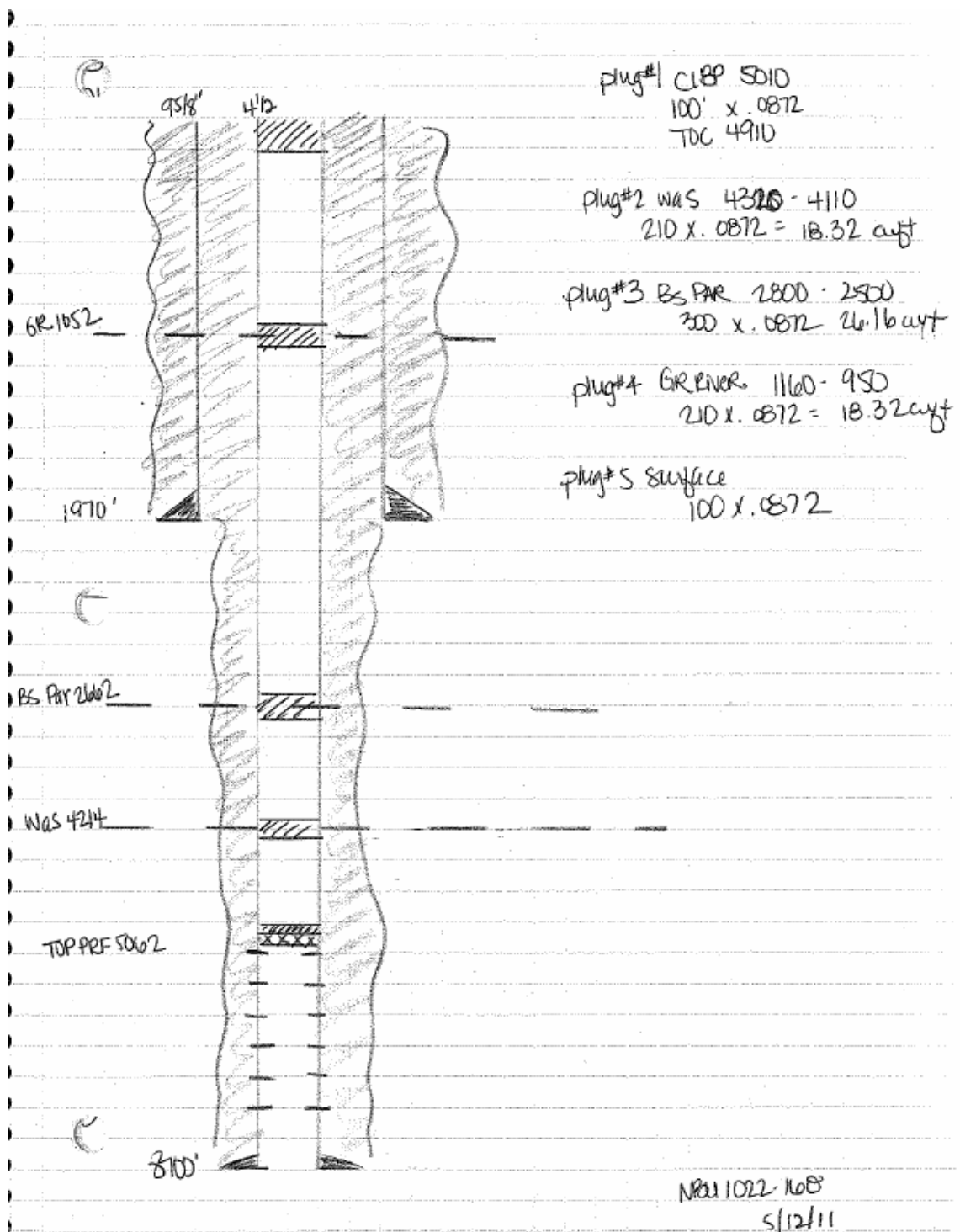
**PROCEDURE**

**Note: An estimated 71 sx Class "G" cement needed for procedure**

1. MIRU. KILL WELL AS NEEDED. ND WH, NU AND TEST BOPE.
2. PULL TBG & LD SAME. RU WIRELINE AND MAKE A GAUGE RING RUN TO CHECK FOR FILL. A GPS READING WILL NEED TO BE TAKEN AT THE WELL SITE AND RECORDED IN OPENWELLS. PLEASE TAKE IT TO THE 6TH DECIMAL PLACE.
3. **PLUG #1, ISOLATE WASATCH/MESAVERDE PERFORATIONS (5062'-8504'):** RIH W/ 4 ½" CIBP. SET @ ~5010'. RELEASE CIBP, PUH 10', BRK CIRC W/ FRESH WATER. DISPLACE A MINIMUM OF **8 SX / 1.6 BBL / 8.72 CUFT**. ON TOP OF PLUG. PUH ABOVE TOC (~4910'). REVERSE CIRCULATE W/ TREATED FRESH WATER.
4. **PLUG #2, PROTECT TOP OF WASATCH (4214'):** PUH TO ~4320'. BRK CIRC W/ FRESH WATER. DISPLACE A MINIMUM OF **16 SX/ 3.3 BBL/ 18.3 CUFT** AND BALANCE PLUG W/ TOC @ ~4110' (210' COVERAGE). PUH ABOVE TOC. REVERSE CIRCULATE W/ TREATED FRESH WATER.
5. **PLUG #3, PROTECT BASE OF PARACHUTE MEMBER (~2662'):** PUH TO ~2800'. BRK CIRC W/ FRESH WATER. DISPLACE A MINIMUM OF **23 SX/ 4.7 BBL/ 26.2 CUFT** AND BALANCE PLUG W/ TOC @ ~2500' (300' COVERAGE). PUH ABOVE TOC. REVERSE CIRCULATE W/ TREATED FRESH WATER.
6. **PLUG #4, PROTECT TOP OF GREEN RIVER (~1052'):** PUH TO ~1160'. BRK CIRC W/ FRESH WATER. DISPLACE A MINIMUM OF **16 SX/ 3.3 BBL/ 18.3 CUFT** AND BALANCE PLUG W/ TOC @ ~950' (210' COVERAGE). PUH ABOVE TOC. REVERSE CIRCULATE W/ TREATED FRESH WATER.
7. **PLUG #4, CEMENT SURFACE HOLE:** PUH TO ~100'. BRK CIRC W/ FRESH WATER. DISPLACE A MINIMUM OF **8 SX / 1.6 BBL / 8.72 CUFT**. AND FILL CASING TO SURFACE.
8. CUT OFF WELLHEAD AND INSTALL MARKER PER BLM GUIDELINES.

9. RDMO. TURN OVER TO OPERATIONS FOR SURFACE REHAB. SURFACE RECLAMATION TO BE PERFORMED IN ACCORDANCE WITH R649-3-34 - WELL SITE RESTORATION.

ALM 5/12/2011





May 12, 2011

Dustin K. Doucet  
Petroleum Engineer  
Division of Natural Resources, Division of Oil, Gas and Mining  
State of Utah  
PO Box 145801  
Salt Lake City UT 84114-5801

Dear Mr. Doucet:

*Dustin*

We are in receipt of your letter dated April 14, 2011, regarding the shut-in and temporarily abandoned status of 17 wells operated by Kerr McGee Oil and Gas.

The attached list explains the status of each well referenced in your April 14, 2011, letter.

Please do not hesitate to contact me if you have any questions or concerns. I can be reached at 720-929-6515.

Sincerely,

A handwritten signature in black ink, appearing to read 'Julie A. Jacobson'.

Julie A. Jacobson  
Regulatory Affairs Supervisor

Attachment

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
For Record Only

RECEIVED

MAY 16 2011

DIV. OF OIL, GAS & MINING

Anadarko Response to UDOGM Letter of April 14, 2011

Well Name	API	Lease	Status / Comment
Love 1121-16F	43-047-36253	ML-46532	P&A procedure will be submitted by June 3, 2011. ✓
NBU 1021-1G	43-047-39001	ML-23612	Sundry approved on 5/3/2011 to convert to Birds Nest Monitor well. ✓
~ NBU 1022-1314S	43-047-39475	STUO-08512-ST	P&A sundry approved 4/19/2011; will be plugged in summer.
NBU 3-2B	43-047-30267	ML-22651	P&A procedure will be submitted by June 3, 2011. ✓
Bonanza 1023-16J	43-047-37092	ML-22186-A	TA approved by State on 4/19/2011. EXT to 12/31/2011
NBU 921-34J	43-047-37953	State	Sundry to convert to a Birds Nest monitoring well will be submitted by June 3, 2011. ✓
~ Hall ET AL 31 18	43-047-30664	Fee	Will return to production - maintenance work will be completed by July 1, 2011.
~ State 921-27L	43-047-32466	U-01194AST	Recomplete approved on 4/27/2011.
NBU 1022-16O	43-047-35945	ML-3276	P&A procedure will be submitted by June 3, 2011. ✓ paid
NBU 1022-16E	43-047-35949	ML-3276	P&A procedure will be submitted by June 3, 2011. ✓
Lookout Point State 1-16	43-047-30544	ML-22186-A	Replaced faulty surface equipment and returned to production. Recomplete procedure will be submitted by June 3, 2011; will complete recompletion operations within 30 days after receipt of an approved permit. ✓ "p"
CIGE 79D	43-047-30896	ML-23612	Converted to SWD well; UDOGM approval on May 18, 2010. ✓
~ CIGE 240	43-047-33207	ML-22935	Recomplete sundry approved on 4/28/2011; work will be completed with 922-29F pad.
~ Ouray 32-146	43-047-33623	ML-22052	Will be returned to production - workover will be performed by July 1, 2011.
NBU 921-34L	43-047-36388	STUO-1194-AST	P&A procedure will be submitted by June 3, 2011. 6/6/2011 going to convert to monitor well
~ NBU 921-33J	43-047-36394	STUO-015630-ST	Recomplete to the Green River sundry will be submitted by June 3, 2011.
NBU 438-19E	43-047-37534	ML-22792	P&A procedure will be submitted by June 3, 2011 (recent attempts to return production have failed). ✓

RECEIVED

MAY 16 2011

DIV. OF OIL, GAS & MINING

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
For Record Only

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
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<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 1022-160
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0817 FSL 2290 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSE Section: 16 Township: 10.0S Range: 22.0E Meridian: S		<b>9. API NUMBER:</b> 43047359450000
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 7/26/2011	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input checked="" type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	
<input type="checkbox"/> DRILLING REPORT Report Date:	OTHER: <input style="width: 100px;" type="text"/>	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> The subject well was plugged and abandoned on 07/26/2011. Please see the attached chronology.		
<b>Accepted by the          Utah Division of          Oil, Gas and Mining          FOR RECORD ONLY</b>		
<b>NAME (PLEASE PRINT)</b> Gina Becker	<b>PHONE NUMBER</b> 720 929-6086	<b>TITLE</b> Regulatory Analyst II
<b>SIGNATURE</b> N/A	<b>DATE</b> 7/28/2011	



## US ROCKIES REGION

### Operation Summary Report

Well: NBU 1022-160				Spud Date: 4/21/2005					
Project: UTAH-UINTAH			Site: NBU 1022-160				Rig Name No: WESTERN WELLSITE/UNK		
Event: ABANDONMENT			Start Date: 7/20/2011				End Date: 7/26/2011		
Active Datum: GL @5,292.99ft (above Mean Sea Level)				UWI: NBU 1022-160					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation	
7/20/2011	7:00 - 17:00	10.00	ABAND					HELD PRE-JOB SAFETY MTG. ROAD EQP TO LOC. SDFN.	
7/21/2011	7:00 - 17:00	10.00	ABAND					PREJOB SAFETY MEETING, RU, BLOW DOWN WELL, ATTEMPT TO KILL WELL WITH FRESH WATER FAILED, RU SLICK LINE, RUN 1.9" GAUGE RING TO 7846', RUN GYRO SURVEY, COULD NOT GET PAST 6700', TOH WITH GYRO SURVEY, SURVEY DIDN'T DOWNLOAD, RUN GYRO SECOND TIME TO 7800', GOOD SURVEY, RD SLICK LINE, SIW, WELL MADE 300BLS WATER, SDFN	
7/22/2011	7:00 - 17:00	10.00						PREJOB SAFETY MEETING, RU, BLOW DOWN WELL, KILL WELL WITH 10BL WATER, NDWH, NUBOP, RU SCANTECK, TOH AND SCAN TUBING, RU WIRE LINE, RIH WITH GAUGE RING TO 5050', RIH WITH CIBP AND SET AT 5010', RD WIRLEIN, PRESSURE TEST CASING TO 500PSI HELD, SIW, SDFN	
7/25/2011	7:00 - 17:00	10.00						PREJOB SAFETY MEETING, TIH AND TAG CIBP AT 5010', ROLL HOLE WITH 60BLS WATER WITH CORROSION INHIBITOR +BIOCIDE, MIX AND PUMP 10SXS CLASS G CEMENT, TOH TO 4338', MIX AND PUMP 20SXS CLASS G CEMENT, TOH TO 2818', MIX AND PUMP 25SXS CLASS G CEMENT, TOH TO 2026', MIX AND PUMP 15SXS CLASS G CEMENT, TOC, WOC, TIH AND TAG CEMENT AT 1860', TOH TO 1170', MIX AND PUMP 20SXS CLASS G CEMENT, TOH, SIW, SDFN	
7/26/2011	7:00 - 17:00	10.00						PREJOB SAFETY MEETING, RD, NDWH, DIG OUT WELLHEAD, CUT OFF WELLHEAD, FILL 4.5" CASING FROM 100' TO SURFACE WITH 15SXS CLASS G CEMENT, TAG CEMENT DOWN 12' IN ANNULUS, FILL WITH 5SXS CLASS G CEMENT, WELD ON PLATE, BACKFILL, MO	